



INNOVATION PRECISION EXCELLENCE

DENTAL CATALOG



## VOCO: INNOVATIVE SOLUTIONS

VOCO's reputation for being a global leader in the manufacturing of dental materials and technologies can be traced back to its early beginnings 40 years ago. Based out of Cuxhaven, Germany, VOCO performs extensive research and development in the fields of dental restoratives, adhesives and many other materials and technologies, setting new standards in the creation of innovative dental products and application aids to provide better solutions to dentists throughout the world and here in North America.

VOCO researchers partner and maintain close contact with over 150 universities and research institutes worldwide, and have led several research projects co-sponsored by the German Federal Ministry of Research. This has enabled VOCO to act as a technological forerunner in several material development areas. A leader in Nanotechnology, VOCO's products have received high praise and recognition in North America with 4 and 5 star ratings from the The Dental Advisor, Reality and other independent institutes.

As a global player, VOCO exports to over 100 countries on 6 continents. In the United States, VOCO is proud to offer you products through Patterson Dental, Henry Schein Dental, Benco Dental and Burkhart Dental. Most locations in the US can enjoy next-day delivery through these fine distributors.

In Canada, VOCO products are available through Henry Schein Dental, Patterson Dental, Sinclair Dental, K-Dental and Central Dental.

We are proud to offer you Great Products, Great Quality, Great Support and Great Value.

For detailed information please visit:

**[vocoamerica.com](http://vocoamerica.com)**

To order or for more information, contact your local VOCO representative.

**1-888-658-2584**

Very Truly Yours,

**VOCO**  
THE DENTALISTS

**Innovation  
Precision  
Excellence**

**Made in Germany**

**PREVENTIVE CARE**

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# ICONS

The following icons enable you to quickly find the right product, make a first assessment and judgment within seconds, and quickly gain a general overview. For detailed information regarding the use of any product, please consult the instructions for use.



**Material composition**  
Both the fillers and the resin matrix of this product are based purely on silicon oxide.



**Material composition**  
This product is based on nano-hybrid technology.



**Curing of the material**  
This product either cures through exposure to light or it self-cures chemically.



**Curing of the material**  
This product self-cures chemically.



**Curing of the material**  
This product cures through exposure to light. The time indicated represents the average time.



**Method of application**  
Preparatory conditioning of the tooth surface is not required before application of this material to the tooth.



**Method of application**  
Separate etching of the tooth surface is necessary before the adhesive system (bond) is used.



**Method of application**  
No separate etching of the tooth surface is required before the adhesive system (bond) is used.



**Indications**  
According to the indications, this product is suitable for fillings of the cavity classes listed.



**Volumetric shrinkage**  
During setting, this product is subject to the volume shrinkage indicated in percent, measured as a change in percent of total volume.



**Filler content**  
This product has a defined filler content, which is indicated in percent by weight.



**Hardness of the material**  
This product possesses the shore A hardness shown.



**Radiopacity**  
After completion of the working process, this material is highly radiopaque. The value shown indicates the radiopacity in percent relating to the aluminium equivalent.



**Working directions**  
This material is suitable for bulk fillings with a maximum layer thickness of 4 mm.



**Fluoride content**  
This product contains the level of fluoride indicated.



**Material compatibility**  
This product can be used with the materials indicated.



**Application of the material**  
This material is available in the non-running, non-dripping NDT®-syringe.



**CAD/CAM**  
This product is suitable for use in digital dentistry.



**Indication of retention time in the mouth**  
This product is retained in the mouth for the minimum duration shown.



**Indication of working time**  
The maximum extraoral working time for this product is as shown.



**No Parabens**  
This product does not contain the hormone disrupting class of compounds know as parabens.



**Indication of wavelength**  
This material can be light-cured using a UV-LED light source with the wavelength shown.



**Format of communication data**  
This product processes the data format indicated.



**Non-sedimenting**  
This product is non-sedimenting. The product enables additive manufacturing of objects from homogeneous solution throughout the entire printing process.



**Application of the material**  
When heated, the viscosity of this material changes, thus uniting the respective advantages of flowable and sculp-table materials. Specifically designed to be heated for use.



# PREVENTIVE CARE

## Protective Dental Care/ Desensitizer

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## Remin Pro

Triple protective dental tooth cream without the risk of milk protein allergies



Not available in Canada!



### Indications

- After whitening
- After professional cleaning
- Prevention and control of hypersensitivities



### Advantages

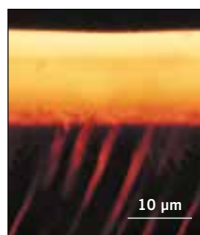
- Triple protection of fluoride, Nano-hydroxyapatite (calcium and phosphate) and Xylitol
- Nano-hydroxyapatite restores the mineral balance
- 61% more fluoride (1,450 ppm) than the leading brand
- Contains Xylitol known for its cariostatic properties
- No risk of milk protein allergies as with other brands
- Fast-acting and great-tasting
- Easy to apply with a finger, soft tooth-brush or in a tray
- CDT Insurance Code 9910 can be used as an application for desensitizing medicament<sup>1</sup>

### Presentation

- REF 2003 12 x 40 g tube melon
- REF 2004 12 x 40 g tube mint
- REF 2005 12 x 40 g tube strawberry
- REF 2006 12 x 40 g tube (4 each x melon, mint, strawberry)
- REF 2007 3 x 40 g tube (1 each x melon, mint, strawberry)

## Admira Protect

Light-cured, Nano-filled desensitizer



Homogeneous covering of dentin with Admira Protect. The bright areas indicate infiltration into the tubules. Admira Protect CLSM study (PD Dr. T. Pioch), Confocal laser scanning micro-photography (CLSM) of Admira Protect on unetched dentin.<sup>2</sup>



### Indications

- Treatment of hypersensitive dentin
- Treatment of cervical areas (including crown margins, after tooth cleaning or tartar removal, exposed cervical areas etc.)



### Advantages

- No hypersensitivity for up to two years
- Biocompatible ORMOCER® matrix – no glutaraldehyde
- Significant reduction of stimulus transfer through intensive deep sealing of exposed root dentin
- High wear resistance through special Nano-filler technology
- High bond strength
- CDT Insurance Code 9911 can be used as an application of desensitizing resin for cervical/root surface, per tooth<sup>1</sup>

### Presentation

- REF 1651 Pack 50 x .06 ml SingleDose, 50 Micro Tim
- REF 1652 Pack 200 x .06 ml SingleDose, 200 Micro Tim
- REF 1650 4.5 ml bottle
- REF 2249 Micro Tim – 100 pack
- REF 2338 disposable brush holder – 5 pack
- REF 2315 mixing pallets – 20 pack

## VOCO Profluorid® Varnish

Easy, tasteful and transparent  
5% Sodium Fluoride Varnish



### Indications

Treatment of hypersensitive teeth

Sealing the dentinal tubules for cavity preparations or on sensitive root surfaces

### Advantages

- Easy non-messy SingleDose delivery system
- No yellow discoloration of teeth
- In seven flavors without the unpleasant aftertaste of some other brands
- Adheres well to moist surface and sets quickly in seconds after contact with saliva
- High immediate fluoride release to relieve hypersensitivity
- Enhanced flow characteristics allow Profluorid Varnish to reach areas traditional varnishes may miss
- Contains Xylitol
- Does not contain: tree nuts, peanuts, corn, shellfish, eggs, milk protein, soy, gluten, triclosan, petroleum, red dye/artificial coloring, saccharin or aspartame
- CDT Insurance Code 1206 can be used for topical application of fluoride varnish<sup>1</sup>
- CPT Insurance Code 99188 for medical claims

### Presentation

REF 2225 Pack 48 x 0.4 ml SingleDose, assorted, accessories

REF 1268 Pack 50 x 0.25 ml melon, accessories

Flavor	SingleDose 50 x 0.4 ml	SingleDose 200 x 0.4 ml
melon	REF 1269	REF 1271
caramel	REF 2226	REF 2229
cherry	REF 2227	REF 2230
mint	REF 2228	REF 2231
bubble gum	REF 2238	REF 2239
cola lime	REF 2240	REF 2241
pina colada	REF 2242	REF 2243

Flavor	tube 10 ml
melon	REF 1267
caramel	REF 2232
cherry	REF 2233
mint	REF 2234
cola lime	REF 2236
pina colada	REF 2237



### Application of Profluorid Varnish



## VOCO Profluorid® L

Clear 5% Sodium Fluoride Liquid Varnish – specially formulated not to interfere with bleaching procedures



Not available in Canada!



### Indications

- Treatment of hypersensitive teeth
- Sealing of the dentinal tubules for cavity preparations or on sensitive root surfaces
- Cavity liner under amalgam restorations
- Desensitizer before and after bleaching

### Presentation

- REF 1590 Pack 50 x .04 ml SingleDose, accessories
- REF 1591 Pack 200 x .04 ml SingleDose, accessories
- REF 1592 4 g bottle, easy brushes, accessories
- REF 2245 Easy Brush – 50 pack
- REF 2315 mixing pallets – 20 pack

### Advantages

- Profluorid L's synthetic resin matrix ensures effective desensitizing during bleaching without interfering with the bleaching results. Your patients will feel immediate relief, which makes Profluorid L the product of choice for each bleaching session.
- Thin and clear for perfect esthetics
- Liquid consistency for easy and economical application
- Effective double protection of 5% sodium fluoride and calcium deposits. The sodium fluoride works immediately while the calcium deposits store and release fluoride over time. The perfect formula for immediate and long-term results.
- Free of glutaraldehyde, gluten or methacrylates
- CDT Insurance Code 9910 can be used as an application for desensitizing medicament<sup>1</sup>

### Application of Profluorid L

*Bottle*



*SingleDose*





## Bifluorid 10®

Double Fluoride liquid varnish for the treatment of dentinal hypersensitivity



Not available  
in the USA!



### Indications

Treatment of hypersensitive teeth  
Sealing of the dentinal tubules for cavity preparations or on sensitive root surfaces  
Cavity liner under amalgam restorations  
Desensitizer before and after bleaching

### Advantages

- Bifluorid 10's synthetic resin matrix ensures effective desensitizing during bleaching without interfering with the bleaching results.
- Thin and clear for perfect esthetics
- Liquid consistency for easy and economical application
- Effective double protection of 5% sodium fluoride and 5% calcium fluoride. The sodium fluoride works immediately while the calcium fluoride stores and releases fluoride over time.
- Superior immediate and long-term results.
- Free of glutaraldehyde, colophony, gluten or methacrylates

### Presentation

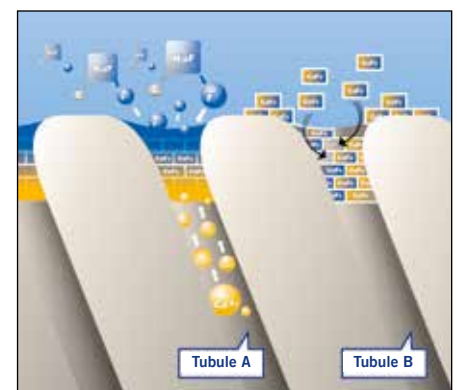
REF 1615 4 g bottle  
REF 1616 10 g bottle  
REF 1617 Pack 3 x 10 g bottle  
REF 1618 Pack 50 x 0.4 ml SingleDose, accessories  
REF 1619 Pack 200 x 0.4 ml SingleDose, accessories  
REF 1032 10 ml Solvent bottle<sup>1</sup>



### Fluoridation with Bifluorid 10 after a professional cleaning



### Mode of action of the sodium and calcium fluoride contained in Bifluorid 10



Tubule A:

Formation of calcium fluoride by the reaction of the sodium fluoride contained in Bifluorid 10 with calcium ions contained in the saliva and dentinal tubuli liquid

Tubule B:

Storage of the calcium fluoride contained in Bifluorid 10 in the tooth substance and tubuli

<sup>1</sup> For use with Bifluorid 10

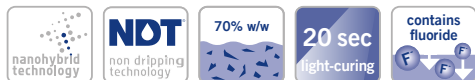
# Grandio Seal

Highly filled Nano-hybrid pit and fissure sealant



### Indications

- Seals/fills pits and fissures
- Seals damaged enamel surfaces
- Covers caries-prone areas during orthodontic treatments
- Seals deciduous teeth



### Advantages

- 70% filled by weight for excellent wear resistance
- Low shrinkage
- Superb flow and wetting properties
- Patented NDT<sup>®1</sup> (Non-Dripping Technology) Syringes and ultra-fine intraoral tips
- Drip-free, bubble-free placement
- Excellent penetration of the deepest pits and fissures
- One radiopaque shade for optimum visibility
- CDT Insurance Code 1351 can be used as a per tooth sealant to prevent decay<sup>2</sup>

### Presentation

- REF 1060 Kit 5 × 2 g syringes with intraoral tips type 45, 5 ml Vococid
- REF 1061 Refill 2 × 2 g syringes, intraoral tips type 45
- REF 2147 intraoral tips type 45 – 100 pack

### Technical Data

Filler content	70.2% by weight
Adhesion to enamel (after 24 hours of storage in water)	16.9 MPa
Transverse strength	130 MPa
Transverse strength after thermocycling	107 MPa
Wear (ACTA)	41.7 μm

# CleanJoy<sup>®</sup>

Minimally abrasive prophy paste



### Indications

- Removal of soft and hard surface plaque
- Removal of extrinsic discoloration (e.g. staining from coffee, tea or tobacco)
- Polishing of tooth surfaces as part of professional tooth cleaning, prior to whitening, or following the removal of orthodontic devices
- Cleaning and polishing of restorations as part of professional tooth cleaning
- Removal of residues of temporary cement prior to bonding (cementation)



### Advantages

- Optimized filler particles for a smooth patient experience without a sandy feeling. Fine Dual Filler (FDF) Technology<sup>3</sup> allows for gentle but effective stain removal. All grits are within the ADA-recommended RDA values.
- FDF technology minimizes splatter
- No parabens, nuts or gluten for reduced allergy risks
- Color-coded grits for easy identification
- Contains fluoride and xylitol
- Simple selection process of three delicious flavors: fresh Mint, sweet Caramel and fruity Cherry

### Presentation

- REF 2096 Pack 200 × 2 g SingleDose fine (green) mint flavor
- REF 2097 Pack 200 × 2 g SingleDose medium (yellow) mint flavor
- REF 2098 Pack 200 × 2 g SingleDose coarse (red) mint flavor
- REF 6102 Pack 200 × 2 g SingleDose fine (green) cherry flavor
- REF 6103 Pack 200 × 2 g SingleDose medium (yellow) cherry flavor
- REF 6104 Pack 200 × 2 g SingleDose coarse (red) cherry flavor
- REF 6094 Pack 200 × 2 g SingleDose fine (green) caramel flavor
- REF 6095 Pack 200 × 2 g SingleDose medium (yellow) caramel flavor
- REF 6096 Pack 200 × 2 g SingleDose coarse (red) caramel flavor

# DIRECT RESTORATION

## Liner/Etchant

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Calcimol	13
Calcimol LC	13
Ionoseal	14
Vococid	14

## Total-Etch Adhesive

Solobond Plus	15
Admira Bond	15

## Self-Etch Adhesive

Futurabond NR	16
Futurabond M	16
Futurabond DC	17
Futurabond M+	17
Futurabond U	18

## Nano-Hybrid Composite

GrandioSO	19
GrandioSO x-tra	20
GrandioSO Light Flow	21
GrandioSO Flow	22
GrandioSO Heavy Flow	23
Grandio	24
Amaris	25
Amaris Gingiva	26
x-tra base	31
x-tra fil	32

## NANO-ORMOCER®

Admira Fusion	27
Admira Fusion Flow	28
Admira Fusion x-tra	29
Admira Fusion x-base	30

## Bulk-Fill Composite

VisCalor bulk	33
VisCalor caps warmer	33
VisCalor	34

## Pediatric Restorative / Composite Caps Warmer

Twinky Star	35
VisCalor Dispenser	35

## Curing Light / Polishers

Celalux 3 / Dimanto	36
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## Reinforcement Strands

GrandTEC	37
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## Glass Ionomer Restorative

Ionolux	38
IonoStar Plus	39
IonoStar Molar	40
GIC Mixer	40

## Glaze

Final Varnish LC	41
Easy Glaze	41



## Calcicur®

Ready-to-use calcium  
hydroxide paste



### Indications

Indirect capping for the treatment of caries profunda

Direct capping when the pulp is opened or a pulpotomy is performed

Lining of cavities to prevent exposure to acid media when using cements

For temporary filling of root canals

### Presentation

REF 1093 2.5 g syringe, intraoral tips type 47

REF 2131 intraoral tips type 47 - 30 pack

### Advantages

- Suitable for use under any lining or restorative material
- Immediately ready for use
- With high pH (12.5) known for antimicrobial effect
- Calcium hydroxide content of 45%
- Radiopaque
- Promotes the formation of tertiary dentin
- Effective pulp protection



## Calcimol

Self-cured paste-to-paste  
calcium hydroxide



### Indications

Indirect pulp capping  
Lining under all filling materials



### Advantages

- Effective protection of the pulp
- Easy application
- Suitable working time
- Short setting time
- Contains 26% calcium hydroxide
- Radiopaque
- Supports the formation of tertiary dentin

### Presentation

REF 1097 Set 1 × 13 g base, 1 × 11 g catalyst

## Calcimol LC

Light-cured, resin modified  
calcium ion releasing base liner



### Indications

Indirect pulp capping  
Lining under all filling materials



### Advantages

- Calcium ion release promotes hydroxyapatite and tertiary dentin growth
- Has a high pH level (9.5–11) which is considered to have an antimicrobial effect
- Flow on demand – stays where you apply it
- Non-Dripping Technology (NDT<sup>®1</sup>) syringe for easy placement without waste
- Virtually eliminates sensitivities by creating a sealed barrier to the pulp
- Suited for pulp capping\* and as a base liner under all restorative materials and cements
- High compressive strength for a solid foundation
- Radiopaque for easy X-ray identification
- Acid resistant

### Presentation

REF 1307 Pack 2 x 2.5 g syringes,  
intraoral tips type 41  
REF 2146 intraoral tips type 41 – 100 pack

### Calcimol LC in the NDT<sup>®1</sup> syringe

- NDT<sup>®1</sup> means Non-Dripping Technology
- Especially for fine-flowing materials
- Can be dosed and applied precisely
- No loss or waste of material

## Ionoseal

One component light-cured resin modified glass ionomer liner



### Indications

Lining under all types of filling material  
Extended fissure sealing  
Restoration of small lesions



### Advantages

- Saves time: Ready-to-use one component material
- Fast 20 sec. light-cure (2 mm)
- High compressive strength (226 MPa)
- Acid resistant allows for total-etch bonding technique
- Patented NDT<sup>®1</sup> Syringe saves material
- High fluoride release protects against secondary caries
- High biocompatibility
- Radiopaque

### Presentation

REF 1326 Pack 3 × 2.5 g syringes, intraoral tips type 41  
REF 2146 intraoral tips type 41 - 100 pack

## Vococid

Phosphoric etchant gel



### Indications

Etching of enamel and dentin in the etch-bond technique

### Advantages

- Non-dripping gel consistency
- 35% orthophosphoric acid
- Blue color for visual control

### Presentation

REF 1063 Pack 1 × 5 ml syringe, accessories  
REF 1224 Pack 5 × 2 ml syringes, accessories  
REF 2310 intraoral tips type 42 - 30 pack  
REF 2132 intraoral tips type 48 - 50 pack

## Solobond Plus

Light-cured two bottle adhesive



### Indications

Direct restoration with composite restoratives for all cavity classes

Adhesive cementation of crowns, bridges, inlays, onlays and veneers with resin cement

For light-, self- and dual-curing composites



### Advantages

- “Stick immediately effect” for convenient composite application
- Can be used with or without dentin etching
- Primer and adhesive are moisture tolerant for application of wet-bonding technique
- Durable restoration through CTR-adhesion, equally high dentin adhesion with or without total-etch technique
- Solobond Plus remains elastic and ensures lasting marginal tightness

### Presentation

REF 1044 Kit 1 × 4 ml primer, 1 × 4 ml adhesive, 1 × 5 ml Vococid syringe, accessories  
 REF 1048 Refill 1 × 4 ml primer  
 REF 1049 Refill 1 × 4 ml adhesive  
 REF 2315 mixing pallet – 20 pack

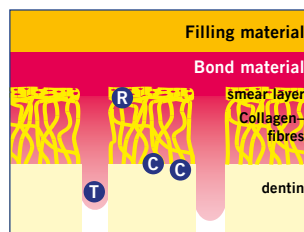
### Technical Data

Bonding strength to:	
- enamel (bovine)	24.2 MPa
- dentin* (total etch)	31.0 MPa
- dentin* (no etching)	27.9 MPa

**ALSO FOR SELF-  
AND DUAL-CURED  
RESTORATIVES**

## Admira Bond

Light-cured total-etch, one coat, one bottle adhesive



### Indications

Direct restoration with all types of light-cured restoratives (ORMOCER®s, composites, compomers)



### Advantages

- Acetone-based for better water displacement; deeper tubule infiltration and reduced sensitivity
- Unique combination of micro mechanical and chemical bonding for superior high bond strength to dentin and enamel
- Elasticity during peak stress ensures long-lasting marginal seal
- Low uniform film thickness
- More than 15-year proven record of success
- Easy dispensing one-drop bottles

### Presentation

REF 2479 4 ml bottle  
 REF 2432 Pack 2 × 4 ml bottles  
 REF 2315 mixing pallets – 20 pack

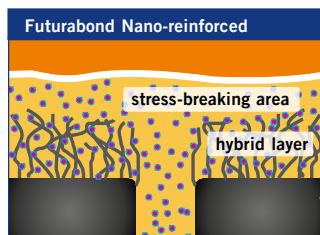
**CTR adhesion describes the adhesion mechanisms of VOCO dentin and enamel bonding agents**

**CTR stands for:**

- C** = chemical bond through complex formation to dentinal calcium
- C** = a second chemical adhesion mechanism through a special monomer to chemically bound phosphate
- T** = development of tags in the tubuli
- R** = retentive adhesion to free collagen fibers

## Futurabond NR

Nano-reinforced single step self-etch adhesive in a SingleDose or bottle delivery system



### Indications

Light-cured, self-etch adhesive for direct restorations with light-cured filling materials for all cavity classes



### Advantages

- Over 30 MPa adhesion to dentin and enamel
- No post-operative sensitivities (The Dental Advisor)
- Reinforced with nano particles
  - increased bonding values
  - increased marginal integrity
- Fast-and-easy one-coat application (apply, dry, cure in 35 sec.)
- Moisture tolerant
- No refrigeration or shaking necessary
- Contains fluoride

### Presentation

REF 1152 Pack 50 × 0.1 ml SingleDose, accessories  
 REF 1153 Pack 200 × 0.1 ml SingleDose, accessories  
 REF 1148 Set 4 ml Liquid A, 4 ml Liquid B  
 REF 2247 Single Tim – 100 pack  
 REF 2315 mixing pallet – 20 pack

### Technical Data

Bonding strength to	– enamel	31.4 MPa
	– dentin	30.6 MPa
Application time	20 sec.	
Drying time	5 sec.	
Curing time	10 sec.	

## Futurabond M

One component Nano-reinforced self-etch bond in a bottle delivery system



### Indications

Light-cured, self-etch adhesive for use with light-cured restoratives in all cavity classes



### Advantages

- Excellent adhesion to dentin and enamel
- Fast and easy application – one-coat, one-cure technique
- Moisture tolerant
- Excellent wetting properties
- No shaking, no rubbing
- Working time of up to 5 minutes

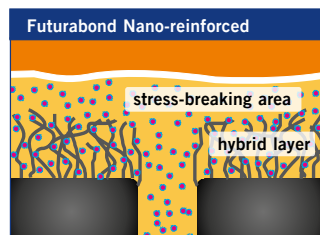
### Presentation

REF 1350 5 ml bottle, accessories  
 REF 1351 Pack 3 × 5 ml bottles  
 REF 2247 Single Tim – 100 pack  
 REF 2315 mixing pallets – 20 pack



## Futurabond DC

Self-etch, dual-cured adhesive for all light-, dual- and self-cured resin materials



### Indications

Dual-cured, self-etch adhesive for direct and indirect restorations with self-, light- and dual-cured resin materials



### Advantages

- Over 30 MPa adhesion to dentin and enamel with LC composites and strong bond strength with DC and SC composites
- Virtually no post-operative sensitivities
- Can be used without light – great for endo
- Reinforced with nano particles: increased bonding values, increased marginal integrity
- Fast and easy one-coat application (apply, dry, cure in 35 sec.)
- Moisture tolerant
- No refrigeration or shaking necessary
- Contains fluoride

### Presentation

REF 1164 Pack 50 × 0.1 ml SingleDose, accessories  
 REF 1165 Pack 200 × 0.1 ml SingleDose, accessories  
 REF 1163 Pack 4 ml liquid 1, 4 ml liquid 2, accessories  
 REF 2246 Endo Tim (for use in root canal) – 50 pack  
 REF 2247 Single Tim – 100 pack  
 REF 2315 mixing pallets – 20 pack

### Technical Data

Micro-tensile bond strength to dentin	39.3 MPa	University of Tanta
Shear bond strength to dentin	30.2 MPa	analogous Reinhardt*
Shear bond strength to enamel	36.1 MPa	analogous Reinhardt*

\* Reinhardt KJ, Phillip Journal 3-4, 1997, 101-104.

## Futurabond M+

Universal adhesive in a bottle delivery system

### Indications

Direct and indirect restorations using any light-cured methacrylate-based restorative, core build-up or composite

Intraoral repair of fillings, ceramic veneers and all-ceramic restorations without an additional primer

Treatment of hypersensitive tooth necks

Protective varnish for glass ionomer cement restorations

Sealing of cavities prior to amalgam restorations or prior to temporary cementation



### Advantages

A flexible and reliable solution for every bonding situation

- Can be applied with or without phosphoric acid etchant
- Suitable for direct and indirect restorations
- Secure adhesion to various materials such as metals, zirconium or aluminum oxide, as well as silicate ceramics, without additional primer
- Applied in one layer – only 35 seconds total working time

### Presentation

REF 1515 5 ml bottle, accessories  
 REF 1516 Pack 3 × 5 ml bottles  
 REF 1518 Dual Cure Activator (DCA) bottle 2 ml  
 REF 2247 Single Tim – 100 pack  
 REF 2315 mixing pallets – 20 pack



### In combination with Futurabond M+ DCA (Dual Cure Activator):

Direct and indirect restorations using any self-cured or dual-cured methacrylate-based restorative, core build-up or luting composite

Cementation of root posts with dual-curing or self-curing composites

## Futurabond U

### Dual-cured Universal adhesive



#### Indications

Direct and indirect restorations using any light-cured, self-cured or dual-cured methacrylate-based restorative, core build-up or composite

Intraoral repair of fillings, ceramic veneers and all-ceramic restorations without additional primer

Treatment of hypersensitive tooth necks

Protective varnish for glass ionomer cement restorations

Sealing of cavities prior to amalgam restorations or prior to temporary cementation

Cementation of root posts with dual-curing or self-curing composites

#### Advantages

- One adhesive for all your adhesive dentistry
  - self-etch, selective-etch or total-etch
  - for all direct or indirect materials without any extra activator
  - bonds to all light-, dual- and self-cured resin materials
  - bonds to metal, zirconia, aluminum oxide, silicate ceramic without any extra primer
- VOCO's patented SingleDose System eliminates the solvent evaporation problem that exists with bottle systems, ensuring reliable and consistent bond strengths with each use
- Fast and easy one-coat application (apply, dry and cure in 35 sec.)
- Virtually no post-operative sensitivity
- Over 30 MPa adhesion to dentin and enamel with LC composites and strong bond strength with DC and SC composites
- Reinforced with nano particles for permanent bond strength

#### Presentation

REF 1571 Pack 50 × 0.1 ml SingleDose, accessories  
 REF 1572 Pack 200 × 0.1 ml SingleDose, accessories  
 REF 2246 Endo Tim  
 (for use in root canal) – 50 pack  
 REF 2247 Single Tim – 100 pack

#### Self-etch



#### Selective-etch



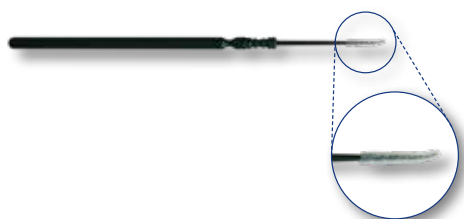
#### Total-etch



## Endo Tim

#### Indications

Brushes for applying bonding agents and varnishes into the root canal



## GrandioSO

Universal light-cured 89% filled Nano-hybrid composite for anterior and posterior fillings of all classes



### Indications

- Class I - V restorations
- Reconstruction of traumatically damaged anteriors
- Facetting of discolored anteriors
- Correction of shape and shade for improved esthetic appearance
- Locking, splinting of loosened teeth
- Repairing veneers
- Restoration of deciduous teeth
- Core build-up under crowns
- Composite inlays

### Advantages

- **89% fillers by weight**
  - outstanding wear resistance
  - enhanced color stability
- **30–50% less resin compared to classic hybrid and pseudo-nano composites**
  - low shrinkage of only 1.6% (by volume)
  - non-sticky
  - prolonged working time under ambient light
- **Designer Nano particles**
  - excellent polishability and polish retention
  - tooth-like modulus of elasticity
  - tooth-like thermal expansion and flexural strength
  - VOCO's individual cross-contamination prevention packaging for capsules



### Presentation

REF 2640 Caps Kit, 80 × 0.25 g caps (A1, A2, A3, GA3.25, B1) shade guide

REF 2600 Syringe Kit, 5 × 4 g syringes (A1, A2, A3, GA3.25, B1) shade guide

REF 9301 Caps Dispenser

**Refills (1 × 4 g syringe/16 × 0.25 g caps), each:**

Shade	1 × 4 g syringe	16 × 0.25 g caps
A1	REF 2610	REF 2650
A2	REF 2611	REF 2651
A3	REF 2612	REF 2652
A3.5	REF 2614	REF 2654
A4	REF 2615	REF 2655
B1	REF 2619	REF 2659
B2	REF 2620	REF 2660
B3	REF 2621	REF 2661
C2	REF 2624	REF 2664
D3	REF 2627	REF 2667
I (Incisal)	REF 2629	REF 2669
Opaque OA1	REF 2630	REF 2670
Opaque OA2	REF 2631	REF 2671
Opaque OA3.5	REF 2633	REF 2673
BL (Bleach)	REF 2635	REF 2675
GA3.25	REF 2613	REF 2653
GA5	REF 2616	REF 2656
Grandio®SO shade guide		REF 2607

### Technical Data

Filler Content:	89% by weight 73% by volume	DIN 51081
Shrinkage:	1.61% (by volume)	analogous Watts et al.
Modulus of Elasticity	16,650 MPa	ISO 4049
Depth of Cure	>2.8 mm/20 s	ISO 4049
Radiopacity	320 %AI	ISO 4049
Surface Hardness (Micro-Vickers hardness)	211 MHV	University of Rostock, Germany
Resistance to Ambient Light	4'30"	ISO 4049
Gloss	84 GU	DIN 67530
Wear Rate	18 µm	3 body wear (ACTA 200,000)



## GrandioSO x-tra

Esthetic Nano-hybrid bulk-fill composite



### Indications

- Class I and II posterior restorations
- Base in Class I and II cavities
- Class V restorations
- Locking, splinting of loose teeth
- Repairing veneers, enamel defects and temporary C&B materials
- Extended fissure sealing
- Restoration of deciduous teeth
- Core build-up

### Advantages

- Quick and esthetic posterior restorations
- Higher level of hardness than other bulk-fill composites – on the surface, as well as at 4 mm depth of cure
- High filler content (86% by weight) and extremely low polymerization shrinkage (1.4% by volume)
- High shade stability
- Excellent handling and simple high-luster polishing procedure
- In shades A1, A2, A3 and Universal



Presentation		
REF 9301 Caps Dispenser		
Shade	1 × 4 g syringe	16 × 0.25 g caps
Universal	REF 2595	REF 2714
A1	REF 2596	REF 2715
A2	REF 2597	REF 2716
A3	REF 2598	REF 2717

Technical Data		
Filler Content:	89% by weight 73% by volume	DIN 51081
Shrinkage	1.4 Vol. %	analogous Watts
Shrinkage stress	5.16 MPa	analogous Watts
Flexural strength	186 MPa	ISO 4049
Flexural strength after thermo-cycling	180 MPa	ISO 4049
Modulus of elasticity	4034 MPa	ISO 4049
Compressive strength	334 MPa	analogous ISO 9917
Radiopacity	423 %AI	ISO 4049
Water uptake	10.35 µg/mm <sup>3</sup>	ISO 4049
Solubility in water	≤ 0.1 µg/mm <sup>3</sup>	ISO 4049
Surface hardness (Micro-Vickers)	222.67 MHV	University of Zagreb
ACTO-wear rate	44 µm	analogous ISO 9917
Curing depth (10 s)	4.67 mm	ISO 4049

## GrandioSO Light Flow

Extremely flowable, yet highly stable Nano-hybrid composite with an ultra-fine intraoral tip for precise applications



### Indications

- Filling/characterization of small cavities
- Filling/characterization of Class III, IV and V cavities
- Extended fissure sealing
- Blocking out undercuts
- Lining or coating cavities
- Repairing fillings, veneers and temporary restorations
- Luting translucent prosthetic pieces

### Advantages

- Low viscosity – allows for outstanding flow properties for maximum accessibility of hard-to-reach areas and small cavities.
- Ultra-fine intraoral tip – for precise and pinpoint application and dosage without excess residues for material savings
- High performance – superior physical properties due to 76% (by weight) nano-hybrid fill rate.
- High esthetics – 8 shades that blend well due to designer nano-particulate
- Excellent handling – NDT<sup>®1</sup>-syringe (non-drip technology), compatible with all light-curing adhesives



Ultra-fine  
intraoral tip



### Presentation

REF 2144 Intraoral tips type 44 - 100 pack

GrandioSO Light Flow (1 × 4 g syringe), each:

Shade	1 × 4 g syringe
A1	REF 2586
A2	REF 2587
A3	REF 2588
A3.5	REF 2589
B1	REF 2590
WO	REF 2591
Opaque OA2	REF 2592
I (Incisal)	REF 2593

### Technical Data

Filler content	76.0% w/w	DIN 51081
Polymerization shrinkage	3.82 Vol.-%	analogous Watts
Modulus of elasticity	8.7 GPa	ISO 4049
3-point flexural strength	151 MPa	ISO 4049
Wear rate (200.000 cycles)	49 µm	ACTA 3 body
Thermocycling	117 MPa	ISO 4049
Compressive strength	374 MPa	analogous ISO 9917
Radiopacity	230 %Al	ISO 4049
Curing depth (800 mW/cm <sup>2</sup> )	≥ 2.20 mm/20 s	ISO 4049
Water absorption	11 µg/mm <sup>3</sup>	ISO 4049
Water solubility	< 0.1 µg/mm <sup>3</sup>	ISO 4049
Surface hardness	121 MHV	University of Rostock

### Treatment of an anterior tooth defect with GrandioSO Light Flow



Initial situation: Enamel fracture on tooth 8



Pre-treatment of enamel fracture



Filling of defect with ultra-fine intraoral tip and GrandioSO Light Flow without excess residues



Final result after finishing

Source: Dr. Walter Denner, Fulda / Germany



# GrandioSO Flow

Medium-viscous, light-cured, universal flowable 81% filled Nano-hybrid composite



## Indications

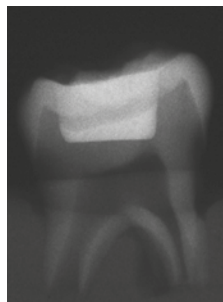
- Restoration of minimally invasive cavities of all classes
- Restorations of small Class I cavities and extended fissure sealing
- Restoration of Class II – V cavities including V-shaped defects and cervical caries
- Blocking out of undercuts
- Lining or coating of cavities
- Repair of fillings, veneers and temporary crowns & bridges
- Cementing of attachment of translucent prostheses (e.g. all-ceramic crowns etc.)

## Advantages

- Outstanding physical properties through 81% filler content
  - strong enough for occlusal surfaces of Class I + II restorations
  - wear resistance of a hybrid
  - excellent color retention
- Excellent wettability
- Thixotropic material that will “flow on demand” without slumping
- Precise application with long bendable tip
- Natural esthetics and exact shade matching with GrandioSO
- Radiopaque
- Patented NDT<sup>®1</sup> (Non-Dripping Technology) syringes



For easy diagnostics use White Opaque (WO) with a radiopacity of 500% Al



GrandioSO Flow's WO shade's extreme radiopacity of 500% Al provides an incredibly sharp contrast to the dental hard tissue and other restorative materials, making it extremely useful for the further physical treatment of a filling. When used as a cavity liner, it clearly marks the proximity of the pulp. It is highly useful for masking discolored areas, and the WO shade can be used for color effects in the creation of highly esthetic restorations.

## Presentation

REF 2720 Syringe Kit, 5 × 2 g syringes (A1, A2, A3, A3.5, WO)

REF 2146 Intraoral tips type 41 – 100 pack

REF 9301 Caps Dispenser

**Refills (2 × 2 g syringes/16 × 0.25 g caps), each:**

Shade	2 × 2 g syringes, intraoral tips type 41	16 × 0.25 g caps
A1	REF 2722	REF 2742
A2	REF 2723	REF 2743
A3	REF 2724	REF 2744
A3.5	REF 2725	REF 2745
A4	REF 2726	REF 2746
B1	REF 2729	REF 2749
B2	REF 2730	
C2	REF 2732	
I (Incisal)	REF 2733	
Opaque OA2	REF 2734	
BL (Bleach)	REF 2736	
WO (White Opaque)	REF 2737	
GA5	REF 2727	
Grandio <sup>®</sup> SO shade guide		REF 2607*

\*Only Above Shades are Available

## Technical Data

Filler content	81% (by weight)	65% (by volume)
Shrinkage	3.19% (by volume)	analogous Watts et al.
Modulus of Elasticity	10,580 MPa	ISO 4049
Depth of cure	>2.51 mm/20 sec.	ISO 4049
Radiopacity	250 %Al	ISO 4049
Radiopacity WO	500 %Al	ISO 4049
Wear rate:	48 µm	(ACTA method: 200,000 cycles)
Flexural strength	159 MPa	ISO 4049

## GrandioSO Heavy Flow

Highly viscous, light-cured, universal flowable  
83% filled Nano-hybrid composite



### Indications

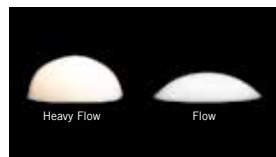
- Restoration of minimally invasive cavities of all classes
- Restoration of small Class I cavities and for extended fissure sealing
- Restoration of Class II – V cavities including wedge-shaped defects and cervical caries
- Blocking out of undercuts
- Lining or coating of cavities
- Repair of restorations and veneers
- Cementing of attachment of translucent prostheses (e.g. all-ceramic crowns etc.)

### Advantages

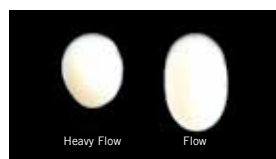
- Strong enough for occlusal surfaces of Class I & II restorations
- Superior physical properties through 83% filler content
- Wear resistance of a hybrid
- No undesirable runoff; increased stability in comparison to conventional flowables
- Simplified filling of undercuts, approximal boxes and paragingival areas
- Ideal for proximal and cervical areas
- Ideal for use with the GrandTEC glass fiber system
- Patented NDT<sup>®1</sup> (Non-Dripping Technology) syringes



### The visible difference



Stability comparison on a horizontal plane



Flowability comparison on a vertical plane

### Presentation

REF 2680 Syringe Kit 5 × 2 g (A1, A2, A3, A3.5, WO), shade guide, accessories

REF 2148 Intraoral tips type 46 – 100 pack

REF 9301 Caps Dispenser

**Refills (2 × 2 g syringes/16 × 0.25 g caps), each:**

Shade	2 × 2 g syringes	16 × 0.25 g caps
A1	REF 2684	REF 2704
A2	REF 2685	REF 2705
A3	REF 2686	REF 2706
A3.5	REF 2687	REF 2707
A4	REF 2688	REF 2708
B1	REF 2690	REF 2712
B2	REF 2691	
C2	REF 2692	
Opaque OA2	REF 2693	
I (Incisal)	REF 2694	
BL (Bleach)	REF 2695	
WO (White Opaque)	REF 2696	
GA5	REF 2689	
Grandio <sup>®</sup> SO shade guide		REF 2607*

\*Only Above Shades are Available

### Technical Data

Filler Content	83% (by weight)	68% (by volume)
Shrinkage	2.96% (by volume)	analogous, Watts, et al.
Flexural Modulus	11,850 MPa	ISO 4049
Depth of Cure	>2.5 mm/20 sec.	ISO 4049
Radiopacity	260 %AI	ISO 4049
Compressive Strength:	417 MPa	ISO 9917
Wear Rate	40 µm	3 body wear (ACTA 200,000)
Flexural Strength	159 MPa	ISO 4049

# Grandio

Universal light-cured 87% filled Nano-hybrid composite for anterior and posterior fillings of all classes

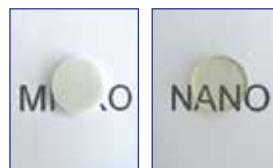
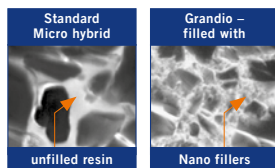
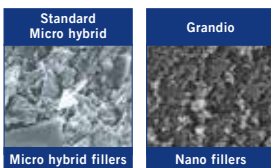


## Indications

- Class I to V fillings
- Reconstruction of traumatically affected anteriors
- Facetting of discolored anteriors
- Correction of shape and shade to improve esthetic appearance
- Locking, splinting of loose anteriors
- Repair of veneers
- Core build-up under crowns
- Especially suitable for composite inlays

## Advantages

- 87% fillers by weight**
  - outstanding wear resistance
  - enhanced color stability
  - terrific handling characteristics (great sculptability, non-sticky consistency, no slumping)
- 30-50% less resin compared to standard micro hybrids**
  - low shrinkage of only 1.57% (by volume)\*
  - excellent polishability
  - improved translucency
  - very high biocompatibility
  - VOCO's individual cross-contamination prevention packaging for capsules



Presentation		
REF 1800 Syringe Kit, 5 × 4 g syringes (A1, A2, A3, A3.5, B2), shade guide		
REF 1830 Caps Kit, 50 × 0.25 g Caps (A1, A2, A3, A3.5, B2), shade guide		
REF 9301 Caps Dispenser		
<b>Refills (1 × 4 g syringe/20 × 0.25 g caps), each:</b>		
Shade	1 × 4 g syringe	20 × 0.25 g caps
A1	REF 1810	REF 1840
A2	REF 1811	REF 1841
A3	REF 1812	REF 1842
A3.5	REF 1813	REF 1843
A4	REF 1814	REF 1844
B1	REF 1824	REF 1854
B2	REF 1815	REF 1845
B3	REF 1816	REF 1846
C2	REF 1817	REF 1847
C3	REF 1818	REF 1848
D2	REF 1825	REF 1855
D3	REF 1819	REF 1849
I (Incisal)	REF 1820	REF 1850
Opaque OA2	REF 1821	REF 1851
Opaque OA3.5	REF 1822	REF 1852
BL (Bleach)	REF 1823	REF 1853
Grandio shade guide		REF 1899

Technical Data		
Filler content	87% by weight 71.4% by vol.	DIN 13922
Shrinkage	1.57% by vol.	University of Manchester, GB
Surface hardness (Micro Vickers-hardness)	285 MHV	University of Rostock, Germany
Wear rate	14 µm	3 body wear (ACTA 200,000)
Depth of cure	3 mm/20 sec.	ISO 4049
Radiopacity	250 %Al	ISO 4049



# Amaris

## Nano-reinforced simplified shade composite



### Indications

- Esthetic restoration of Class III, IV and V cavities in anteriors
- Esthetic restoration of Class I, III and V cavities in posteriors
- Reconstruction of traumatically damaged anteriors
- Direct and indirect composite veneers, facing of discolored anteriors
- Correction of shade and shape for improved esthetics
- Repair of highly esthetic ceramic restorations
- Splinting, interlocking of teeth

### Advantages

- Easy to polish for high luster gloss anterior
- Nano-reinforced pre-polymerized ISO fillers for low shrinkage and excellent wear for posterior
- Non-sticky consistency makes shaping easy
- Non-sensitive to ambient light guarantees at least 8 minutes working time
- Simply intuitive approach: become an artist in less than 10 minutes
- Natural fluorescence and high color stability
- Patented NDT<sup>®1</sup> (Non-Dripping Technology) syringes



Initial situation



Selecting of opaque shade



Applying opaque layer



Final esthetic restoration

Pictures are a courtesy of Joyce L. Bassett, DDS, Scottsdale, AZ

### Presentation

- REF 1930 Syringe Kit, 8 × 4 g syringes (O1, O2, O3, O4, O5, TL, TN, TD), 2 × 1.8 g syringes Amaris Flow (HT, HO), accessories
- REF 1950 Caps Kit, 16 × 0.25 g caps (each O1, O2, O3, O4, O5, TL, TN, TD), 2 × 1.8 g syringes Amaris Flow (HT, HO), accessories
- REF 1949 Caps Starter Kit, 4 × 0.25 g caps (each O1, O2, O3, O4, O5), 2 × 1.8 g syringes Amaris Flow (HT, HO) accessories
- REF 2144 intraoral tips type 44 – 100 pack
- REF 9301 Caps Dispenser

#### Refills (1 × 4 g syringe / 16 × 0.25 g caps), each:

Shade	1 × 4 g syringe	16 × 0.25 g caps
O1	REF 1933	REF 1953
O2	REF 1934	REF 1954
O3	REF 1935	REF 1955
O4	REF 1936	REF 1956
O5	REF 1937	REF 1957
O Bleach	REF 1938	REF 1958
TL (Translucent Light)	REF 1940	REF 1960
TN (Translucent Neutral)	REF 1941	REF 1961
TD (Translucent Dark)	REF 1942	REF 1962

#### Refills (2 × 1.8 g syringe):

Shade	Syringe
HT (High Translucent)	REF 1945
HO (High Opaque)	REF 1946
Shade guide	REF 1669

### Technical Data

Filler content	80% (by weight)
Shrinkage	2.0% (by volume)
ACTA Wear Rate (200,000 cycles)	45 µm
Flexural Strength (ISO 4049)	120 MPa
Compressive Strength	375 MPa
Diametral Tensile Strength (DTS)	51 MPa
Radiopacity (ISO 4049)	210 %AI
Translucent shades (10 sec.)	> 2.5 mm
Opaque shades (40 sec.)	> 2.0 mm

## Amaris Gingiva

Light-cured, gingiva colored restorative system



### Indications

Class V restorations (cervical caries, root erosion, V-shaped defects) especially in cases of retreating gingiva, e.g. as a result of periodontal disease

Covering of exposed discolored hypersensitive necks of teeth, especially in the visible anterior area

Highly esthetic correction of malpositions of teeth, for direct veneers, facings and corrections of the red-white esthetics

### Advantages

- Highly esthetic chairside composite restorative which can be adapted to a large variety of gingiva colors
- One basic color and three mixable opaquers can reproduce almost all gingiva colors
- Cervical areas exposed after gingiva recession and cervical V-shaped defects can be restored esthetically and functionally
- Gingiva colors for chairside use
- Advanced composite technique: Amaris® Know-How in gingiva colors for highly esthetic restorations beyond the gingiva margin
- Patented NDT<sup>®1</sup> (Non-Drip Technology) Syringe technology

### Presentation

REF 1970 Kit, 3 × 1.2 g opaque in the colors white, light and dark, 1 × 4 g basic color "nature", accessories

REF 1971 Refill, 1 × 4 g color "nature"

REF 2147 intraoral tips type 45 – 100 pack

### Technical Data

Filler content	80% (by weight)	DIN 51081
Shrinkage	2% (by volume)	University of Manchester
3-Point flexural strength	120 MPa	ISO 4049
Surface hardness (Micro-Vickers Hardness)	99 MHV	University of Rostock
Depth of cure (500 mW/cm <sup>2</sup> )	> 2 mm / 40 s	ISO 4049
Radiopacity	210 %AI	ISO 4049
Water solubility	<1 µg/mm <sup>3</sup>	ISO 4049
Water absorption	18.4 µg/mm <sup>3</sup>	ISO 4049



# Admira Fusion®

Universal Nano-ORMOCER® restorative material



## Indications

Class I to V restorations

Base in Class I and II cavities

Reconstruction of traumatically damaged anteriors

Facetting of discolored anteriors

Correction of shape and shade for improved esthetic appearance

Locking, splinting of loose anteriors

Repairing veneers, small enamel defects and temporary C&B materials

Extended fissure sealing

Restoration of deciduous teeth

Core build-up

Composite inlays

## Advantages

- The world's first all ceramic-based direct universal restorative material
- Pure silicate technology: fillers and matrix are based purely on silicon oxide
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Nano-ORMOCER® technology reduces shrinkage and shrinkage stress by up to 50% compared to composites and leads to outstanding shade stability
- Non-sticky consistency for easy handling
- Perfect balance of translucency and opacity for natural looking restorations
- Easy to polish to a high shine luster
- High 84% fill rate for high wear resistance
- Compatible with all conventional bonding agents
- VOCO's individual cross-contamination prevention packaging for capsules



## Presentation

REF 2750 Syringe Kit, 5 × 3 g syringes (A1, A2, A3, A3.5, Admira Fusion x-tra), shade guide

REF 2780 Caps Kit, 75 × 0.2 g caps (15 each of A1, A2, A3, A3.5, Admira Fusion x-tra), shade guide

REF 9301 Caps Dispenser

**Refills (1 × 3 g syringe / 15 × 0.2 g caps), each:**

Shade	1 × 3 g syringe	15 × 0.2 g caps
A1	REF 2754	REF 2782
A2	REF 2755	REF 2783
A3	REF 2756	REF 2784
A3.5	REF 2758	REF 2786
A4	REF 2759	REF 2787
B1	REF 2762	REF 2790
B2	REF 2763	REF 2791
B3	REF 2764	REF 2792
C2	REF 2766	REF 2794
D3	REF 2768	REF 2796
Opaque OA1	REF 2770	REF 2798
Opaque OA2	REF 2771	REF 2799
Opaque OA3	REF 2772	REF 2800
Opaque OA3.5	REF 2773	REF 2801
BL (Bleach)	REF 2775	REF 2803
I (Incisal)	REF 2776	REF 2804
Mixed*	n/a	REF 2806
GA3.25	REF 2757	REF 2785
GA5	REF 2760	REF 2788
Admira Fusion Shade Guide		REF 2752

## Technical Data

Shrinkage	1.25% (by volume)
Shrinkage stress	3.71 MPa analogous Watts et al.
Filler content	84% (by weight)
Depth of Cure	2.71 mm / 20 s
Radiopacity	305 %AI
Modulus of elasticity	9,800 MPa
Thermal expansion coefficient $\alpha$	40.3 *10 <sup>-6</sup> / K
3-Point-flexural strength	132 MPa
Edge stability	171.9 N
Compressive strength	307 MPa analogous ISO 9917
Water uptake	13.4 $\mu\text{g} / \text{mm}^3$
Water solubility	$\leq 0.1 \mu\text{g} / \text{mm}^3$
Resistance to ambient light	198 s
Tensile bond strength on enamel (with Futurabond M+: Self-Etch mode)	30.04 MPa
Tensile bond strength on dentin (with Futurabond M+: Self-Etch mode)	23.82 MPa

# Admira Fusion® Flow

Flowable light-cured Nano-ORMOCER® direct restorative material



## Indications

Filling of small cavities and extended fissure sealing

Blocking out undercuts

Lining or coating cavities

Fillings of Class III-V cavities

Repairing fillings, veneers and temporary restorations

Luting translucent prosthetic pieces

Locking/splinting of loose teeth

## Advantages

- The world's first all ceramic-based direct flowable restorative material
- Pure Silicate Technology: Fillers and matrix are based purely on silicon oxide
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Nano-ORMOCER® technology reduces shrinkage (2.75% by volume) and shrinkage stress to the level of universal composites
- Inert for outstanding shade stability
- High fill rate of 74% by weight for better wear
- Compatible with conventional adhesives
- Easy to polish to a high shine luster
- Excellent wettability
- Thixotropic material that will "flow on demand" without slumping
- Non-Dripping Technology syringe (NDT®<sup>1</sup>)
- Radiopaque (240% Al)
- 12 shades for esthetic restorations – perfectly matching the shade range of the packable version, Admira Fusion



## Presentation

REF 2816 Syringe Kit 5 × 2 g syringes (A1, A2, A3, A3.5, WO), shade guide, accessories

REF 2146 intraoral tips type 41 – 100 pack

Shade	2 × 2 g syringes
A1	REF 2818
A2	REF 2819
A3	REF 2820
A3.5	REF 2821
A4	REF 2822
B1	REF 2824
B2	REF 2825
C2	REF 2826
I (Incisal)	REF 2828
Opaque OA2	REF 2829
BL (Bleach)	REF 2831
WO (White Opaque)	REF 2832
Admira Fusion Shade Guide	REF 2752*

\*Only Above Shades are Available

## Technical Data

Shrinkage	2.75% (by volume) analogous
Shrinkage stress	7.27 MPa analogous
Filler content	74% (by weight)
Depth of Cure	2.66 mm / 20 s
Radiopacity	240 %Al
Modulus of elasticity	5,771 MPa
Compressive strength	281 MPa analogous
Water uptake	12 µg / mm <sup>3</sup>
Water solubility	< 0.1 µg / mm <sup>3</sup>
Resistance to ambient light	198 s
Water uptake	13.4 µg / mm <sup>3</sup>
Surface hardness (Micro-Vickers)	86 MHV
Diametrical tensile strength	66 MPa

## Admira Fusion® x-tra

Single-shade Omni-chromatic Nano-ORMOCER Restorative



### Indications

- Class I and II posterior restorations
- Base in Class I and II cavities
- Class V restorations
- Locking, splinting of loose anteriors
- Repairing veneers, small enamel defects and temporary C&B materials
- Extended fissure sealing
- Restoration of deciduous teeth
- Core build-up

### Advantages

- Only one omni-chromatic shade: no guess work and no more wasted shades
- 4 mm depth of cure – saves time
- Easy to polish, highly stain resistant with a high gloss
- Exceptional longevity with low initial shrinkage of only 1.25% by volume
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Based on innovative Nano-ORMOCER Technology with enhanced physical properties
- Compatible with all conventional bonding agents
- VOCO's individual cross-contamination prevention packaging for capsules

### Presentation

- REF 2810 Pack 3 g syringe – universal
- REF 2811 Pack 15 × 0.2 g caps – universal
- REF 9301 Caps Dispenser

### Technical Data

Shrinkage	1.25% (by volume) analogous Watts et al.
Shrinkage stress	3.87 MPa analogous Watts et al.
Filler content	84% (by weight)
Depth of Cure	4.05 mm / 20 s
Radiopacity	296 %AI
Modulus of elasticity	10,090 MPa
3-Point-flexural strength	136 MPa
Compressive strength	307 MPa analogous ISO 9917
Water uptake	13.4 µg / mm <sup>3</sup>
Water solubility	≤ 0.1 µg / mm <sup>3</sup>



### Admira Fusion x-tra's single universal shade matches:

	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	OM3*
Before Light Cure																	
Final Result																	

Source: Internal VOCO data 2019

## Admira Fusion® x-base

Nano-ORMOCER® flowable base restorative material



### Indications

- Base restorative in Class I and II fillings
- As a base/liner for Class I and II fillings
- Small, non occlusion-bearing Class I fillings
- Class III and V fillings
- Extended fissure sealing
- Blockout of undercuts
- Repair of small enamel defects
- Repair small defects in esthetic indirect restorations
- Repair of provisional C&B materials
- Core build-up

### Advantages

- All ceramic-based nano-ORMOCER® Technology
- 4 mm depth of cure for ease and speed
- High fill rate of 72% by weight for better wear
- Extremely low polymerization shrinkage of 2.5% by volume
- Particularly low shrinkage stress with optimal marginal integrity
- Highly biocompatible and extremely color-stable
- Ideal flowability for excellent adaptation
- Outstanding handling, even in difficult-to-access areas
- Available in the patented Non-Dripping Technology (NDT®<sup>1</sup>) syringe
- Compatible with all conventional adhesives
- Compatible with all conventional resin-based and ORMOCER®-based restorative materials

### Presentation

- REF 2812 Pack 2 × 2 g syringes, accessories
- REF 2148 intraoral tips type 46 – 100 pack

### Technical Data

Shrinkage	2.5% (by vol.) analogous Watts et al.
Filler content	72.0% (by weight)
Depth of Cure	4.49 mm/20 s
Radiopacity	250 %AI
Modulus of elasticity	5,698 MPa
3-Point flexural strength	104 MPa
Compressive strength	256 MPa analogous ISO 9917
Water absorption	16.36 µg/mm <sup>3</sup>
Water solubility	<0.1 µg/mm <sup>3</sup>
Thermal expansion coefficient	54.7·10 <sup>-6</sup> ·K <sup>-1</sup>



## x-tra base®

### Fast bulk-fill flowable posterior composite



#### Indications

- Base for Class I and II cavities
- Cavity liner under direct restorative materials in Class I and II cavities
- Small, non-occlusal stress-bearing Class I restorations according to minimally invasive filling therapy
- Class III and V restorations
- Extended fissure sealing
- Undercut blackout
- Repair of small enamel defects
- Repair of small defects in esthetic indirect restorations
- Repair of temporary C&B materials
- Core build-up

#### Presentation

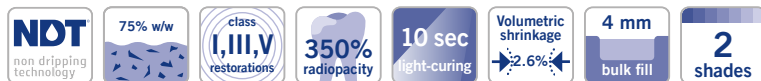
- REF 1790 Pack 2 × 2 g syringe, shade Universal
- REF 1791 Pack 2 × 2 g syringe, shade A2
- REF 1794 Pack 16 × 0.25 g caps, shade Universal
- REF 1795 Pack 16 × 0.25 g caps, shade A2
- REF 2148 intraoral tips type 46 – 100 pack
- REF 9301 Caps Dispenser

#### Technical Data

Filler Content	75% by weight
Shrinkage Stress	5.93 MPa
Shrinkage	2.54% (by volume)
Radiopacity	350 %AI
Surface Hardness	100 MHV
Wear (ACTA)	46.1 µm
Flexural Strength after TC	141 MPa

#### Advantages

- 4 mm depth of cure in 10 sec saves time\*
- Low shrinkage stress allows bulk-fill speed
- High strength makes it suitable for open and closed sandwich technique
- Smart self-leveling properties for excellent wall adaptation without slumping out of maxillary restorations
- High radiopacity (350% AI) for easy X-ray identification
- Available in patented NDT®<sup>1</sup> (Non-Dripping Technology) syringes or unit dose caps with extra long bendable needle tip
- Available in shades A2 and Universal



**x-tra fil®**

Fast bulk-fill packable posterior composite

**Indications**

Class I and II restorations

Core build-up

**Presentation**

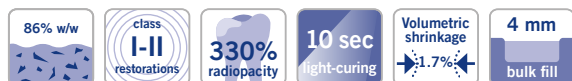
REF 1740 Pack 1 × 5 g syringe, shade universal  
 REF 1741 Pack 20 × 0.25 g caps, shade universal  
 REF 9301 1 Caps Dispenser

**Advantages**

- **x-tra fast**
  - 4 mm cure in 10 sec
  - Use with Futurabond NR/DC/U SingleDose to bond, fill and cure 4 mm in less than 60 sec.
- **x-tra durable**
  - low shrinkage of 1.7% by volume through multi-hybrid filler technology
  - 86% filled by weight for great wear resistance
- **x-tra easy**
  - one universal shade fits all. High translucency provides excellent chameleon effect for good esthetics
  - highly radiopaque (330% AI)
  - perfect for fast core build-ups
- **x-tra safe**
  - VOCO's individual cross-contamination prevention packaging for capsules

**Technical Data**

Filler Content	86% by weight
Shrinkage	1.7% (by volume)
Radiopacity	330 %AI
Surface Hardness	142 MHV
Wear (ACTA)	43 µm
Flexural Strength	145 MPa

**Clinical Case**

Source: Dr. Ulrich Sachse, Kiel



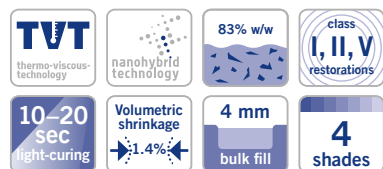
## VisCalor® bulk

### Thermo-viscous bulk-fill composite



#### Indications

Class I and II posterior restorations  
 Base in Class I and II cavities  
 Class V restorations  
 Locking, splinting of loose teeth  
 Repairing veneers, enamel defects and temporary C&B-materials  
 Extended fissure sealing  
 Restoration of deciduous teeth  
 Core build-up



#### Clinical Case



Initial situation

Source: Dr. Walter Denner, Fulda / Germany



Minimally invasive prepared cavity at tooth 5



Filling the cavity with VisCalor bulk



Restoration two months after filling

#### Advantages

- Thermo-viscous: Initially flowable for optimal adaptability, then immediately sculpable. This 2-in-1 material approach (flowable and packable) saves time
- Bulk-fill with 4mm depth of cure speeds up the procedure
- Easy-Access-Capsule with long and narrow tip for hard-to-reach areas and bubble-free application
- VOCO's new TVT polymer technology for:
  - fast viscosity change
  - the ability to flow
  - low shrinkage and excellent wear
- Monoblock concept: one highly-filled material from bottom to top
- Safe to use. VisCalor bulk's temperature increase during application and polymerization stays within the normal range of pulpal physiology\*

#### Presentation

REF 6063 Kit VisCalor bulk + VOCO Caps Warmer, 80 × 0.25 g Caps (16 × universal, 16 × A1, 32 × A2, 16 × A3)  
 REF 6062 Kit VisCalor bulk + VisCalor Dispenser, 80 × 0.25 g caps (16 × universal, 16 × A1, 32 × A2, 16 × A3)  
 REF 6065 Caps 16 × 0.25 g universal  
 REF 6066 Caps 16 × 0.25 g A1  
 REF 6067 Caps 16 × 0.25 g A2  
 REF 6068 Caps 16 × 0.25 g A3  
 REF 9301 Caps Dispenser

#### Technical Data

Shrinkage	1.44% (by volume)	analogous Watts
Shrinkage stress	4.6 MPa	analogous Watts
Filler content	83% (by weight)	DIN 51081
Radiopacity	310 %AI	ISO 4049
3-point flexural strength	164 MPa	ISO 4049
Compressive strength	335 MPa	analogous ISO 9917
Water absorption	11 µg/mm <sup>3</sup>	ISO 4049
Water solubility	≤ 0.1 µg/mm <sup>3</sup>	ISO 4049
Abrasion	39 µm	ACTA-3-body
Diametral tensile strength	64 MPa	
Thermal expansion coefficient α	33·10 <sup>-6</sup> / K-1	Fraunhofer Institute Würzburg
Surface hardness	147 MHV	University of Rostock

\* Braun A; Temperature development inside the tooth during application of a thermo-viscous bulk-fill material; Report to VOCO; University of Aachen, 2019.

## Caps Warmer

Preheating device for composite caps<sup>1</sup>



#### Indications

Device for warming composite caps

#### Advantages

- Composite warming increases the viscosity of a composite, making the application easier
- Warms 2 finishing instruments, making it easier to sculpt the composite
- Holds 4 spare composite caps
- 3 heat levels for different viscosities
- No effect on physical properties of VOCO materials

#### Presentation

REF 9001 Caps Warmer  
 REF 9003 Caps Warmer Tray

<sup>1</sup>Caps Dispenser displayed with Caps Warmer is sold separately and does not come in kit. Instruments are for display only and do not come in kit

## VisCalor®

Universal Thermo-viscous composite



### Indications

- Class I to V restorations
- Base fill (restoration base) in Class I and II cavities
- Reconstruction of anterior teeth damaged by trauma
- Veneering discolored anterior teeth
- Corrections in shape and shade to improve esthetics
- Interlocking, splinting of loose teeth
- Repairing of veneers, enamel defects, and temporary C&B materials
- Extended fissure sealing
- Restoration of deciduous teeth
- Core build-up
- Composite inlays



### Advantages

- Thermo-viscous: Initially flowable for optimal adaptability, then immediately sculptable
- Easy-Access-Capsule with long and narrow tip for hard-to-reach areas and bubble-free application
- 2-in-1 material (flowable and packable) saves time
- Highly filled for low shrinkage and high strength
- Excellent esthetics with high gloss and extended color stability

### Presentation

REF 6107 VisCalor – Caps Warmer Kit  
(16 × A1, 32 × A2, 16 × A3, 16 × A3.5, VisCalor Caps Warmer)

REF 6106 VisCalor – Heating Dispenser Kit  
(16 × A1, 32 × A2, 16 × A3, 16 × A3.5, VisCalor Dispenser)

REF 6110 VisCalor – Shade Guide

Shade	16 × 0.25 g caps	Shade	16 × 0.25 g caps
A1	REF 6113	B1	REF 6119
A2	REF 6114	B2	REF 6120
A3	REF 6115	Incisal	REF 6121
GA3.25	REF 6116	OA2	REF 6122
A3.5	REF 6117	BL	REF 6123
A4	REF 6118	(Bleach)	

### Technical Data

Filler Content	83% (by weight)
Compressive strength	331 MPa
Shrinkage stress	4.1 MPa
Water uptake	13 µg/mm <sup>3</sup>
Radiopacity	285 %AI
Flexural strength	158 MPa
Volumetric shrinkage	1.41%
Water solubility	<0.1 µg/mm <sup>3</sup>



Source: Dr. Walter Denner, Fulda / Germany



## VisCalor® Dispenser

Preheating dispenser for VOCO composite caps



### Indications

Heating and application of highly filled composites in caps



### Advantages

- Increased efficiency – rapid warming and immediate application in one device
- Homogeneous warming thanks to near-infrared technology
- Thoughtful design and proven shape for filling molar cavities
- Two customized programs (VisCalor/VisCalor bulk and additional VOCO composites)

### Presentation

REF 9143 VisCalor Dispenser – Preheating device  
 REF 9144 Changeable tops – 2 pcs.  
 REF 9145 Protective sleeves – 100 pack

## Twinky Star

Light-cured colored compomer filling material with glitter effect for deciduous teeth



### Indications

Filling of deciduous teeth



### Advantages

- 8 attractive colors
- Fast and easy direct application
- Excellent polishability
- Color guide with original material



### Presentation

REF 1680 Kit 40 × 0.25 g caps in eight different colors, color guide  
 REF 9301 Caps Dispenser  
**Refill pack 25 × 0.25 g caps each:**

25 × 0.25 g	Shade	25 × 0.25 g	Shade
REF 1681	"Gold"	REF 1685	"Green"
REF 1682	"Silver"	REF 1686	"Orange"
REF 1683	"Blue"	REF 1687	"Lemon"
REF 1684	"Pink"	REF 1688	"Berry"
Shade Guide		REF 1689	

### Technical Data

Polymerization Shrinkage	2% (by volume)	
Filler Rate	77.8% (by weight)	(DIN 13922)
Transverse strength	116 MPa	(ISO 4049)
Compressive strength	316 MPa	(ISO 9917)
Wear	14.6 µm	(ACTA 250,000 cycles)

## Celalux 3

High intensity, lightweight, cordless LED curing light



### Indications

Curing of all light-cured dental materials whose polymerization is activated within a wavelength range of 450–480 nm

### Advantages

- Only 2.5 oz weight – more user-friendly
- Vibration after 10 and 20 seconds – no more annoying beeps make it more patient-friendly
- High light intensity at 1,300 mW/cm<sup>2</sup> – ensures high depth of cure
- Wavelength of 450-480 nm – allows curing of virtually all modern materials
- Includes spare battery to eliminate unnecessary down time

### Presentation

REF 9090 Celalux 3 (handpiece, battery charger, power cord with interchangeable main adapters, 2 lithium polymer batteries, 8 mm light guide, rubber shield, operating instructions)

REF 9091 Light guide 8 mm, autoclavable

REF 9092 Device base (Battery)

REF 9093 Rubber shield, 5 pcs.

### Technical Data

Light intensity (output)	1,300 mW/cm <sup>2</sup>
Wavelength range	450–480 nm
Total Operation Time	> 45 cycles of 20 sec. cures w/ fully charged battery
Operating voltage	100-240 V AC 50/60 Hz
Handpiece length	Ø 12.6 mm x L 210 mm
Handpiece weight	70 g (incl. device base and light guide)

## Dimanto

One-step diamond polisher for pre-polishing and high gloss polishing of resin-based restoratives



### Indications

Pre-polishing and high gloss polishing of finished composite restorations

for NHT  
Composites



### Advantages

- Pre-polish to high gloss with one polisher
- Designed and precisely manufactured for easy insertion into your contra-angle handpiece
- Five diamond-impregnated silicone polishers to meet all your resin-based restorative polishing needs
- Use wet or dry; no polishing paste needed
- Autoclavable

### Presentation

REF 2380 Kit 5 pcs. mixed (one each of small point, large point, small cup, large cup, lens)

REF 2381 small point (10 pcs.)

REF 2382 large point (10 pcs.)

REF 2383 small cup (10 pcs.)

REF 2384 large cup (10 pcs.)

REF 2385 lens (10 pcs.)

## GrandTEC

Resin-impregnated, light-cured glass fiber-reinforced strands for use in the dental adhesive technique



### Indications

For the reinforcement and stabilization of teeth in the dental adhesive technique

### Presentation

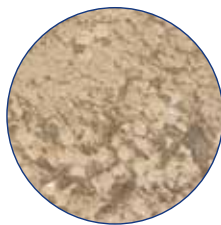
REF 1168 5 × glass fiber strands 55 mm each

### Advantages

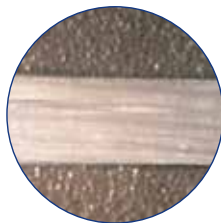
- Three times the reinforcement strength compared to polyethene materials
- The ideal companion for the stabilization of teeth after orthodontic or periodontal therapy
- The perfect reinforcement in the fabrication of crowns and bridges
- For the temporary treatment of missing teeth; can also be used in the osseointegration process of an implant and in trauma therapy
- Compatible with all light-curing bonds and composites in direct and indirect restorations
- Does not rebound, unravel or fall apart when cut or adapted
- Safe and biocompatible
- No special gloves or tools needed

### Technical Data

3-point Flexural Strength (2 × 2) (in combination with Grandio Flow)	655 MPa	analogous ISO 4049
Modulus of Elasticity (2 × 2) (in combination with Grandio Flow)	13,600 MPa	derived from flexural strength test



The adjacent photo shows a section from a GrandTEC glass fiber, bonded with Grandio Flow. The strong cohesion between the impregnated glass fiber and the flow composite are impressively documented here. The E-modulus of the test specimen achieved a value of more than 13 MPa; the transverse strength is 5x higher than with composites without the additional use of GrandTEC glass fiber.



The adjacent enlargement shows the homogeneous progression of the densely packed glass fibers with GrandTEC.



# Ionolux®

Light-cured resin-modified glass ionomer restorative material



## Indications

- Class III and V restorations, primarily cervical fillings and root caries
- Restoration of deciduous teeth
- Small Class I restorations
- Temporary restorations
- Core build-ups
- Linings

## Advantages

- Composite-like esthetics
- Light-curing for fast finish
- Immediately packable after application
- Does not stick to the instrument, easy to shape
- Excellent translucency for better esthetic results
- High fluoride release minimizes secondary caries
- Highly radiopaque
- No dentin conditioner or adhesive needed



## Presentation

- REF 2115 Kit 50 application capsules (10 × A1, 30 × A2, 10 × A3)
- REF 2117 Pack 20 application capsules A1
- REF 2118 Pack 20 application capsules A2
- REF 2119 Pack 20 application capsules A3
- REF 2120 Pack 20 application capsules A3.5
- REF 2121 Pack 20 application capsules B1
- REF 2122 Bulk Pack 150 Application capsules A2
- REF 2123 Bulk Pack 150 Application capsules A3
- REF 2331 1 AC Applicator Type 1
- REF 2334 1 AC Applicator Type 2
- REF 9050 GIC Mixing Device

## Technical Data

Shear bond strength to dentin	8.7 MPa	ISO/TS 11
Shear bond strength to enamel	8.7 MPa	ISO/TS 11
3-Point flexural strength	60.7 MPa	ISO 9917-2
Compressive strength	219.6 MPa	analogue ISO 9917-1
Radiopacity	250 %AI	ISO 9917-2
Depth of cure (500 mW/cm <sup>2</sup> )	2 mm/20 s	ISO 4049
Working time	> 3 min	ISO 9

## Clinical Case 1



Tooth 20 with cervical defect

Source: Dr. Isma Goltz, Bremen / Germany



Tooth 20 immediately after treatment

## Clinical Case 2



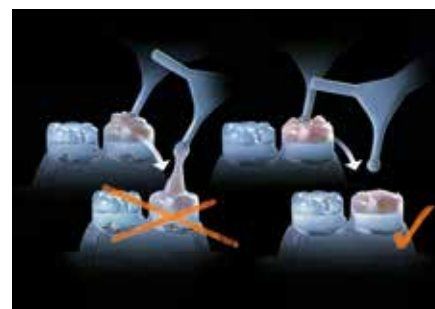
Teeth 3, 4 after excavation



Subsequent treatment with Ionolux

Source: Prof. Hervé Tassery, PU-PH, Faculty of Odontology, University of Marseille / France

## Non-Stick Handling



# IonoStar® Plus

Fast-setting glass ionomer restorative material



## Indications

Restorations of non-occlusal bearing Class I cavities  
 Semi-permanent restorations of Class I and II cavities  
 Restorations of cervical lesions, Class V cavities, root caries  
 Restorations of Class III cavities  
 Restoration of deciduous teeth  
 Base/Liner  
 Core build-up  
 Temporary restorations  
 Extended fissure sealing

## Presentation

REF 2540 Kit 50 application capsules  
 (10 × A1, 30 × A2, 10 × A3)  
 REF 2548 Pack 20 application capsules A1  
 REF 2543 Pack 20 application capsules A2  
 REF 2544 Pack 20 application capsules A3  
 REF 2545 Pack 20 application capsules A3.5  
 REF 2546 Bulk Pack 150 Application capsules A2  
 REF 2547 Bulk Pack 150 Application capsules A3  
 REF 2331 1 AC Applicator Type 1  
 REF 2334 1 AC Applicator Type 2  
 REF 9050 GIC Mixing Device

## Advantages

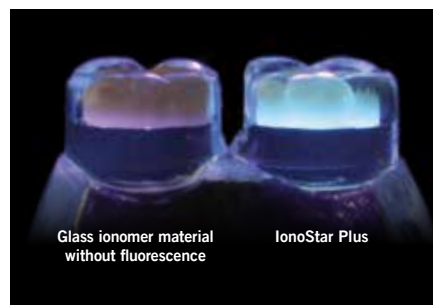
- Fast set time saves valuable chair time
- Does not stick to instrument for ease of application
- Two (2) stage consistency for easy adaptation, yet still packable
- Perfect wetting behavior for excellent marginal adaptation
- High translucency for better esthetic results
- Tooth-like fluorescence for better esthetic results
- Excellent physical properties support long-lasting restorations
- High fluoride release minimizes secondary caries

## Technical Data

Compressive strength	245 MPa	ISO 9917-1
Radiopacity	230 %AI	ISO 9917-1
Mixing time	10 s	ISO 9917-1
Setting time	60 s	ISO 9917-1
Intraoral setting time	120 s	ISO 991



## Fluorescence



## Non-Stick Handling



## IonoStar® Molar

Glass ionomer restorative material



### Indications

Restorations of non-occlusal bearing  
Class I cavities

Semi-permanent restorations of Class I  
and II cavities

Restorations of cervical lesions, Class V  
cavities, root caries

Restorations of Class III cavities

Restoration of deciduous teeth

Base/Liner

Core build-up

Temporary restorations



### Advantages

- Does not stick to instrument for ease of application
- Adjustable consistency so you can pick your preference
- Perfect wetting behavior for excellent marginal adaptation
- Immediately packable; can be shaped immediately after application and remains stable
- High translucency enables better esthetic results
- Excellent physical properties support long-lasting restorations
- High fluoride release that minimizes secondary caries

### Presentation

REF 2520 Kit 50 application capsules  
(10 × A1, 30 × A2, 10 × A3)

REF 2524 Pack 20 application capsules A1

REF 2525 Pack 20 application capsules A2

REF 2526 Pack 20 application capsules A3

REF 2522 Intro Kit 150 application capsules A2\*

REF 2523 Intro Kit 150 application capsules A3\*

REF 2532 Bulk Pack 150 application capsules A2

REF 2533 Bulk Pack 150 application capsules A3

REF 2331 1 AC Applicator Type 1

REF 2334 1 AC Applicator Type 2

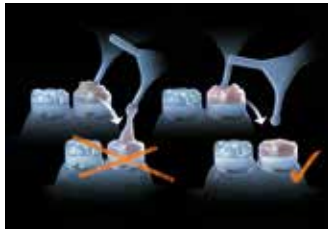
REF 9050 GIC Mixing Device

\*Includes AC Applicator Type 1

### Technical Data

Compressive strength	275 MPa	ISO 9917-1
Radiopacity	250 %Al	ISO 9917-1
Mixing time	10–15 s	ISO 9917-1
Setting time	90 s	ISO 9917-1
Intraoral setting time	180 s	ISO 991

### Non-Stick Handling



## VOCO GIC Mixer®

Capsule mixing device



### Indications

Device for mixing powder and liquid in  
application capsules

### Advantages

- High oscillating frequency of 4,600 rpm, creating a particularly homogeneous mixture of powder and liquid
- Modern design
- Capsule holder allows simple insertion and removal of capsules

### Presentation

REF 9050 GIC Mixing Device

- User-friendly
- Quiet and practically vibration-free
- Mixing times can be freely selected between 1 and 99 seconds



## Final Varnish LC

Light-cured varnish for sealing of glass ionomer fillings



### Indications

Sealing and surface covering of glass ionomer restorations

Protection against moisture and dehydration



### Advantages

- Finish temporary and permanent restorations in seconds

### Presentation

REF 1241 Pack 2 × 3 ml bottles  
REF 2315 mixing pallets – 20 pack

## Easy Glaze®

Nano-filled, light-cured liquid polish and surface sealant



### Indications

Surface sealing of glass ionomer cements, provisional crowns and bridges and definitive composite restorations

Protecting glass ionomer cement surfaces against the effects of moisture and dehydration immediately after placement

Sealing glass ionomer cement liners/build-up restorations before taking impressions

Sealing and protecting adhesive interfaces between restoration and tooth structure



### Advantages

- Finish temporary and permanent restorations in seconds
- Natural gloss and tooth-like fluorescence
- Can be used on all types of direct and indirect restorations
- Nano-filled for better wear resistance
- Works with LED, PAC and halogen curing lights
- Protects against staining and discoloration
- Increase patient satisfaction
- Excellent protection of glass ionomers against moisture and dehydration

### Presentation

REF 1016 5 ml bottle, accessories  
REF 2245 easy brushes – 50 pack  
REF 2315 mixing pallets – 20 pack

# INDIRECT RESTORATION

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## V-Posil® Heavy Soft Fast · V-Posil® Putty Fast

Time optimized VPS tray material



### Indications

**V-Posil Heavy Soft Fast** is to be used as heavy body material for:

- One-step impression technique (simultaneous technique) using dual viscosities
- Two-step impression technique using dual viscosities
- Functional impressions

**V-Posil Putty Fast** is used as a preliminary material for:

- Two-step putty-wash impression technique
- One-step putty-wash impression technique
- Two-step putty-wash impression technique using a foil (plastic putty spacer)
- One-step putty impression technique for forming functional peripheries

### Advantages

- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Heavy Soft Fast material offers an optimal viscosity to load the tray but remains soft enough after it sets for easy removal from the mouth
- Lab technicians will appreciate the post-set hydrophilicity (<math><6^\circ</math> contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

### Presentation

#### V-Posil Heavy Soft Fast

- REF 2565 Cartridge 1 × 380 ml, mixing tips type 30
- REF 2566 Cartridge 2 × 380 ml
- REF 2567 Cartridge 2 × 50 ml, mixing tips type 16
- REF 2568 Cartridge 10 × 50 ml
- REF 2196 mixing tips type 16 – 50 pack (50 ml)
- REF 2203 mixing tips type 30 – 50 pack (380 ml)

#### V-Posil Putty Fast

- REF 2561 Jar 2 × 450 ml
- REF 2562 Jar 8 × 450 ml
- REF 2563 Cartridge 1 × 380 ml, mixing tips type 30
- REF 2564 Cartridge 2 × 380 ml, mixing tips type 30
- REF 2158 Type 2 dispenser (50 ml cartridge)

#### VOCO Dynamic Dispenser

- REF 9140 380 ml Mixing device, 110 V int. E1



## V-Posil® Light Fast · X-Light Fast

Time optimized VPS wash material



### Indications

**V-Posil Light Fast** & **V-Posil X-Light Fast** are used as syringeable impression materials for:

- Two-step putty-wash impression technique
- One-step putty-wash impression technique
- Two-step impression technique using a foil (plastic putty spacer)
- One-step impression technique (simultaneous technique) using dual viscosities
- Reline impressions
- Fabricating full or partial dentures

### Advantages

- Excellent flow without slumping
- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure, while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- Setting times of the light body wash and heavy body tray materials are synchronized (match)
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Due to its low polyether-like contact angle of less than 10°, V-Posil's superior hydrophilicity displaces fluids (saliva, blood, etc.) creating an enhanced contact to the dental anatomy and yielding more precise impressions
- Lab technicians will appreciate the post-set hydrophilicity (< 6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

### Presentation

#### V-Posil Light Fast

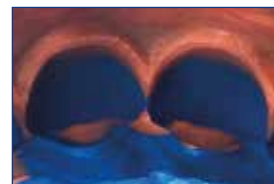
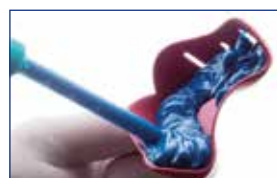
REF 2573 Cartridge 2 × 50 ml, mixing tips type 7  
 REF 2574 Cartridge 10 × 50 ml  
 REF 2186 mixing tips type 7 – 50 pack  
 REF 2141 intraoral tips type 3 – 50 pack

#### V-Posil X-Light Fast

REF 2575 Cartridge 2 × 50 ml, mixing tips type 7  
 REF 2576 Cartridge 10 × 50 ml  
 REF 2186 mixing tips type 7 – 50 pack  
 REF 2141 intraoral tips type 3 – 50 pack  
 REF 2158 Type 2 dispenser (50 ml cartridge)



### Clinical Case



Source: Mauricio Watanabe, Cristian Sánchez, Brazil

## V-Posil® Mono Fast

Time optimized VPS medium body impression material



### Indications

**V-Posil Mono Fast** is used as a medium-bodied tray or syringeable impression material for:

- Taking impressions over fixed/removable restorations and implants (i.e., transferring impression posts and bridge components)
- Functional impressions
- Fabricating crown and bridgework or inlays
- Fabricating full or partial dentures
- Reline impressions
- Transferring root posts when fabricating posts and cores indirectly
- Multi-tray technique
- Use in the simultaneous mixing technique as well as the putty-wash technique



### Advantages

- Excellent flow without slumping
- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure, while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- Setting times of the light body wash and heavy body tray materials are synchronized (match)
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Due to its low polyether-like contact angle of less than 10°, V-Posil's superior hydrophilicity displaces fluids (saliva, blood, etc.) creating an enhanced contact to the dental anatomy and yielding more precise impressions

### Presentation

#### V-Posil Mono Fast

REF 2569 Cartridge 1 × 380 ml, mixing tips type 30  
REF 2570 Cartridge 2 × 380 ml  
REF 2571 Cartridge 2 × 50 ml, mixing tips type 16  
REF 2572 Cartridge 10 × 50 ml

REF 2196 mixing tips type 16 – 50 pack (50 ml)  
REF 2203 mixing tips type 30 – 50 pack (380 ml)  
REF 2133 intraoral tips type 6 – 50 pack  
REF 2158 Type 2 dispenser (50 ml cartridge)

- Lab technicians will appreciate the post-set hydrophilicity (< 6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

## VOCO Dynamic Dispenser

Dynamic mixing device



### Indications

Apparatus for automatic dosing and mixing of VOCO impression materials in the 5:1 cartridge

### Advantages

- Homogeneous dynamic mixing of V-Posil components to ensure consistently high material quality
- Bubble-free dispensing
- Fill level display
- Two feed speeds
- Electronic residual detection

### Presentation

REF 9140 Mixing device 110 V int. E1  
REF 2203 mixing tips type 30 – 50 pack

## Registrado® X-tra

Extra hard, fast and flexible bite registration A-silicone



### Indications

Bite registration

Fixing of face bow registration

Location material for intraoral pin tracing template

### Advantages

- Optimal rigidity for precise trimming
- Two-phase set: After 40 sec. the material is hard and dimensionally stable but still elastic for easy removal. Extreme final hardness is reached after 90 sec.
- Firm non-dripping consistency
- Thixotropic for easy application and no occlusion resistance
- Temperature-controlled setting for sufficient application time and short intraoral set time (only 30–40 sec.)
- Good contrast for easy identification
- Convenient trimming with scalpel, scissors or cutter
- Intraoral tips provide a flat ribbon of material for better coverage of the occlusal surface
- No distortion in articulation, especially in free-end situations

### Presentation

REF 2035 Pack 2 × 50 ml 1:1 cartridges, mixing tips type 16, intraoral tips type 2

REF 2036 Clinic Pack 8 × 50 ml cartridges, mixing tips type 16, intraoral tips type 2

REF 2196 mixing tips type 16 – 50 pack

REF 2140 intraoral tips type 2 – 50 pack

REF 2158 Type 2 dispenser

SC  
self-curing

auto  
mix

Shore-A  
90



Intraoral tips provide a flat ribbon of material for better coverage of the occlusal surface



## Registrado® Clear

Transparent A-silicone fast-setting bite registration material



Not available  
in the USA!



### Indications

Bite registration

Registration key for intraoral support pin registration

Fixation of X-ray balls

Front and occlusal stamp

Silicone key for composite fillings



### Advantages

- High final end hardness and high translucency
- Guaranteed to remain on the occlusal surface with great consistency
- Time controlled curing process – curing time is accelerated when the patient's mouth is closed
- Perfect for light-curing through the material
- Great dimensional stability (>99%)

### Presentation

REF 2037 Pack 1 x 50 ml 1:1 cartridge, accessories  
 REF 2196 mixing tips type 16 – 50 pack  
 REF 2140 intraoral tips type 2 – 50 pack  
 REF 2158 Type 2 dispenser

## Registrado® Scan

Scannable addition-curing silicone bite registration material



Not available  
in Canada!



### Indications

Occlusal bite registration

Fixation of facial arch registries

Registration key for intraoral support pin registration



### Advantages

- High final end hardness
- Short intraoral setting time
- Precise occlusion reproduction
- Scan without the use of powder
- Easily incorporated into analog or digital workflow

### Presentation

REF 2038 Pack 1 x 50 ml 1:1 cartridge, accessories  
 REF 2196 mixing tips type 16 – 50 pack  
 REF 2140 intraoral tips type 2 – 50 pack  
 REF 2158 Type 2 dispenser

## GrandioSO Inlay System

Chairside fabrication of indirect composite inlays



### Indications

Single office visit composite inlay system

### Advantages

- **Complete kit for chairside fabrication of 15 composite inlays**
  - full added value retained in the practice, no laboratory involvement
  - less expensive than CAD/CAM fabricated inlay
- **Highest quality, perfectly coordinated components**
  - quick and simple fabrication of models
  - the premium composite GrandioSO guarantees durability and esthetics
  - Futurabond DC and Bifix QM for secure bonding and luting
- **Simple and efficient method**
  - easy and convenient to fabricate, even for large multi-surface restorations
  - fabrication of a row of inlays for treatment of neighboring teeth
  - creation of approximal contacts without having to use the time-consuming and expensive matrix technique
  - perfect occlusal anatomy - modeled extra-orally
  - stress-free fabrication of tooth color and durable restorations, even in patients who are reluctant to comply or non-compliant

### Presentation

REF 2642 Kit 3 x 50 ml cartridge Die Silicone, 15 x 0.25 g GrandioSO caps (5 each A1, A2, A3), 15 Futurabond DC SingleDose, 10 g QuickMix syringe Bifix QM universal, Dimanto set (one each of small point, large point, small cup, large cup, lens), accessories

REF 1186 Refill Die Silicone 2 x 50 ml cartridge, mixing tips type 20

REF 2202 mixing tips type 20 (Die Silicone) – 50 pack

REF 2191 mixing tips type 11 (Bifix QM) – 50 pack



### GrandioSO Inlay System Application





## Clip

Light-cured provisional filling material in caps or syringes



### Indications

All kinds of temporary fillings, temporary protection for inlay and onlay technique



Source: Dr. Peter Bastobbe, Mainleus / Germany

### Advantages

- Can be easily removed in one piece
- Easy handling
- Remains flexible even after curing
- Excellent cavity sealing
- Transparent, no discoloration
- Does not stick to instrument
- No material waste
- Time saving – no handmixing required

### Presentation

REF 1284 Pack 2 × 4 g syringes  
REF 1285 Tripack 3 × 4 g syringes  
REF 1287 Pack 25 × 0.25 g Caps  
REF 9301 Caps Dispenser

### Technical Data

Depth of curing	11 mm
Surface hardness	90 Shore A
Diametrical tensile strength	27 MPa
Water solubility (14 days)	0.46%
Marginal seal behavior	0.5 VAS

## Clip Flow

Light-cured, flowable provisional filling material in syringes



### Indications

Temporary inlay and onlay treatments of the cavity

Sealing of openings for implant screws

Relining material for temporary crowns and bridges

Block out material for retentive areas in the dental arch, e.g. before taking impressions

Covering of the gingival margin

Fixing of resin matrices during filling placement

Temporary filling of cavities

### Advantages

- Easy to place – easy to remove in one piece
- No damage to preparation boundaries
- Durable and saliva-proof
- Non-sticky
- Time-saving through light-curing
- Elastic
- Flowable
- NDT<sup>®1</sup> (Non-Dripping Technology) syringe

### Presentation

REF 1282 Pack 2 x 1.8 g syringe, accessories  
REF 2148 application tips type 46 – 100 pack



Abutment with open aperture

Aperture sealed with Clip Flow

Light-curing of the material

Finished seal

## Provicol®

Medium retention non-eugenol temporary cement with calcium hydroxide in syringes, cartridges or tubes



### Indications

Temporary cementation of crowns and bridges



### Advantages

- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Good adhesion to temporaries
- Low film thickness for easy placement of temporary crowns & bridges for a perfect fit
- Peelable consistency for easy clean-up
- Highly economical direct application
- No eugenol allergies
- No inhibition of curing reaction of resin-based filling, cementing materials, or glass ionomer cements

### Presentation

REF 1074 Pack 5 ml QuickMix syringe, mixing tips type 10  
 REF 2189 mixing tips type 10 – 50 pack  
 REF 1076 Pack 2 × 65 g cartridges, 40 mixing tips type 6  
 REF 2185 mixing tips type 6 – 50 pack  
 REF 1075 Set 25 g base, 25 g catalyst in tubes

### QuickMix syringe advantages

- New quick and easy-to-use delivery system
- No hand mixing, no air bubbles and a predictable homogenous mix every time
- No mess, no hardened tubes
- 50% less waste in the mixing tips when compared to hand mixing waste
- Small tips have 80% less waste than traditional cartridge systems

## Provicol® QM Plus

Strong retention non-eugenol temporary cement with calcium hydroxide



### Indications

Temporary cementation of provisional restorations (crowns, bridges, inlays and onlays)

Temporary cementation of definitive restorations (crowns, bridges, inlays and onlays)

Temporary obturation of small single-surface cavities



### Advantages

- Increased strength for more retention and secure adhesion
- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Low film thickness for easy placement of temporary crowns & bridges for a perfect fit
- Peelable consistency for easy clean-up
- Highly economical direct application
- No eugenol allergies
- No inhibition of curing reaction of resin-based fillings, cementing materials or glass ionomer cements
- High level of radiopacity

### Presentation

REF 1098 Pack 5 ml QuickMix syringe, accessories  
 REF 2189 mixing tips type 10 – 50 pack

## Provicol® QM Aesthetic

Translucent zinc oxide, non-eugenol, high retention temporary cement with calcium hydroxide



### Indications

Temporary cementation of provisional or definitive inlays, onlays, crowns, partial crowns/veneers and bridges

Temporary filling of small one-surface cavities



### Advantages

- Translucent appearance that will not change the overlying color of the temporary
- Does not permanently adhere to composite-based core-build ups for easy removal
- Very low film thickness (7 µm) enhances the fit and secures an excellent retention
- Semi-elastic consistency allows for an easy clean up and removal
- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Non-eugenol for the use of permanent resin cements and bis-acrylic temporaries
- Radiopaque

### Presentation

REF 1108 5 ml, QuickMix syringe, accessories  
REF 2189 mixing tips type 10 – 50 pack

## Bifix® Temp

Dual-cured, transparent, composite-based temporary cement material



### Indications

Temporary cementation of provisional restorations



### Advantages

- White translucent shade – high esthetics
- Dual-cured – fast setting and “tack cure” for excess removal
- Strong adhesion – secures long-term temporaries
- Easy excess removal in light- and self-cure mode – fast working
- 5 micron film thickness – no “jack-ups” of temporaries
- Short mixing tip – less waste

### Presentation

REF 1055 Pack 5 ml QuickMix syringe universal, accessories  
REF 2188 mixing tips type 9 – 50 pack

## Structur® 2 SC

Fast setting temporary BIS-Acrylic crown and bridge material in 1:1 cartridge and QuickMix syringe



### Indications

Temporary crowns, bridges, inlays and onlays

### Advantages

- Fast setting time: less than 1 minute in the mouth
- Strong and wear-resistant
- Better esthetics: available in 8 popular shades
- Long-term color stability and composite-like polishability
- Quick and easy automix application: ideal bubble-free consistency
- Economical due to smallest possible tips: up to 40% less waste
- MMA-free: no unpleasant taste or smell
- Minimal shrinkage
- Low exothermic setting temperature



### Presentation

REF 1499 Intro Kit 75 g cartridge shade A2, dispenser type 2, mixing tips type 6

REF 1478 Intro Kit 75 g cartridge shade A3, dispenser type 2, mixing tips type 6

Shade	pack 75 g safety cartridge, mixing tips type 6
A1	REF 1479
A2	REF 1480
A3	REF 1481
A3.5	REF 1490
B1	REF 1482
B3	REF 1483
Bleach (BL)	REF 1485
C2	REF 1486

REF 1492 Bulk Pack 5 × 75 g cartridges shade A2, mixing tips type 6

REF 1491 Bulk Pack 5 × 75 g cartridges shade A3, mixing tips type 6

REF 2185 mixing tips type 6 – 50 pack

REF 2189 mixing tips type 10 – 50 pack

REF 2158 Type 2 dispenser

### Structur 2 QuickMix syringe

Shade	QuickMix syringe 8 g, mixing tips type 10
A1	REF 1309
A2	REF 1310
A3	REF 1311
B1	REF 1312

### Technical Data

Working time	30–50 sec.
Intraoral setting time (ISO 4049)	40–70 sec.
Compressive strength (ISO 9917)	215 MPa
3-Point flexural strength (ISO 4049)	92.7 MPa
Diametral tensile strength	30 MPa
Modulus of elasticity analogous (ISO 4049)	2,500 MPa
Maximum intrapulpal temperature	< 40.5 °C – University of Münster

## Structur® 3

Nano-filled, quick setting, strong temporary crown & bridge material with “Wipe & Go” Technology



### Indications

Fabrication of temporary crowns, bridges, inlays, onlays, partial crowns, veneers and temporary posts

Fabrication of long-term temporaries

Lining of pre-fabricated temporary crowns made from composite materials, polycarbonate or metal

### Advantages

#### • Fast and Economical

- no more polishing – just wipe with alcohol for a brilliant gloss
- only 45 sec. intraoral setting time
- small mixing tips and no more “bleeding” before changing mixing tips yields at least 20 more units per cartridge compared to 10:1 and 4:1 products

#### • Durable

- high fracture resistance and compressive strength
- suited for long-span bridges and long-term provisionals

#### • Esthetic

- natural gloss and tooth-like fluorescence
- color stable for long-term use
- available in eight VITA®<sup>1</sup> matching shades



### Presentation

REF 2500 Intro Kit 50 ml Cartridge, shade A2, dispenser type 2, mixing tips type 6

REF 2501 Intro Kit 50 ml Cartridge, shade A3, dispenser type 2, mixing tips type 6

Shade	Cartridge 50 ml, mixing tips type 6	Shade	Cartridge 50 ml, mixing tips type 6
A1	REF 2503	B1	REF 2507
A2	REF 2504	B3	REF 2508
A3	REF 2505	C2	REF 2509
A3.5	REF 2506	Bleach (BL)	REF 2510

REF 2512 Cartridge 5 × 50 ml, shade A2, mixing tips type 6

REF 2513 Cartridge 5 × 50 ml, shade A3, mixing tips type 6

REF 2185 mixing tips type 6 (Cartridge) – 50 pack

REF 2189 mixing tips type 10 (QM syringe) – 50 pack

REF 2158 Type 2 dispenser

#### Structur 3 QuickMix syringe

Shade	QuickMix syringe 5 ml, mixing tips type 10
A1	REF 2515
A2	REF 2516
A3	REF 2517
B1	REF 2518

### Technical Data

Working time	30–50 sec.
Intraoral Setting Time	40–70 sec.
Compressive Strength	509 MPa
3-point Flexural Strength	113 MPa
Diametral Tensile Strength	48 MPa
E-modulus	1,900 MPa
Fluorescence	Yes
Setting temperature	max. 3.6°F above mouth temp.

## Structur<sup>®</sup> Premium

Highly durable, fast-setting BIS-Acrylic temporary crown and bridge material with added flexural strength



### Indications

Temporary crowns, bridges, inlays and onlays

### Advantages

- **Ceramic-like esthetics**
  - brilliant gloss
  - natural fluorescence
- **Hard as enamel**
  - high fracture resistance, compressive and tensile strengths – ideal for long-span bridges
- **Easy handling**
  - fast and easy trimming and polishing
  - minimal inhibition layer
  - 1:1 standard dispenser
  - fast intraoral setting time (30-45 sec.)



Initial situation



Structur Premium temporary

Source: Images are a courtesy of Dr. Frank Milnar

### Presentation

REF 1710 Intro Kit 75 g cartridge, shade A3, dispenser type 2, mixing tips type 6

Shade	pack 75 g safety cartridge, mixing tips type 6
A1	REF 1712
A2	REF 1713
A3	REF 1714
A3.5	REF 1717
B1	REF 1718
B3	REF 1715
Bleach (BL)	REF 1716

REF 1719 Bulk Pack 5 × 75 g cartridges, shade A3, mixing tips type 6

REF 2185 mixing tips type 6 (Cartridge) – 50 pack

REF 2158 Type 2 dispenser

### Technical Data

Working time	30 sec.
Setting time in mouth	30–45 sec.
Compressive strength	450 MPa
Diametral tensile strength	48 MPa
Transverse strength (10 min.)	100 MPa
Transverse strength (7 days water storage)	119 MPa
Flexural modulus	2,500 MPa
Fluorescence	Yes
Setting temperature	max. 3.6°F above mouth temp.

## Grandio Core Dual Cure

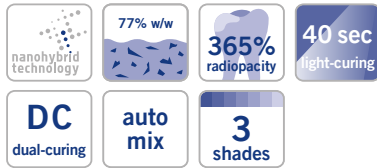
Grandio's Nano-technology for core build-ups



### Indications

Adhesive core build-up on vital and non-vital teeth

Cementing of pins and posts



### Advantages

- Dentin-like hardness – eliminates ditching
- Stackable consistency
- Nano particles for tooth-like strength and flexibility
- 77% filled for long-lasting success rates
- High radiopacity (365% AI) for easy X-ray identification
- Suitable as a post cement with long endo tips

### Presentation

REF 1910 Pack 10 g QuickMix syringe Dentin  
REF 1911 Pack 10 g QuickMix syringe Blue  
REF 1912 Pack 10 g QuickMix syringe White  
REF 2191 mixing tips type 11 - 50 pack  
REF 2142 intraoral tips type 4 - 50 pack

### Clinical Case



High loss of substance in the anterior area after excavation



Condition after build-up with Grandio Core Dual Cure, ready for impression



Final restoration

Source: Dr. Walter Denner, Fulda / Germany

## Rebilda® DC

Dual-cured core build-up composite  
in an automix delivery system



### Indications

Adhesive core build-up on vital and non-vital teeth

Cementing of fiber-reinforced resin posts

### Advantages

- Dual-cured: light-cure to accelerate finishing or simply allow Rebilda to self-cure to maximize working time
- Tooth-like surface hardness – cuts like dentin – eliminates ditching
- Low heat development even with large core volumes
- High adhesion with system bond – fewer parapulpal pins
- 3 shades: blue, white and dentin
- High radiopacity
- Fluoride release from both bond and core build-up material
- Curved intraoral tip assists with hard-to-reach areas



### Presentation

#### Cartridge

- REF 1395 Intro Kit 50 g cartridge Rebilda DC dentin shade, 8 ml Futurabond DC, mixing tips type 12, dispenser type 3, accessories
- REF 1396 Pack 50 g cartridge Rebilda DC dentin shade, mixing tips type 12, intraoral tips type 3
- REF 1397 Pack 50 g cartridge Rebilda DC blue shade, mixing tips type 12, intraoral tips type 3
- REF 1398 Pack 50 g cartridge Rebilda DC white shade, mixing tips type 12, intraoral tips type 3
- REF 2192 mixing tips type 12 – 50 pack
- REF 2141 intraoral tips type 3 – 50 pack
- REF 2199 mixing tips type 19 (bendable) - 30 pack
- REF 2259 Type 3 dispenser

#### QuickMix Syringe

- REF 1402 Intro Kit 10 g QuickMix syringe Rebilda DC dentin shade, 8 ml Futurabond DC, mixing tips type 11, accessories
- REF 1403 Pack 10 g QuickMix syringe Rebilda DC dentin shade, mixing tips type 11, intraoral tips type 4
- REF 1404 Pack 10 g QuickMix syringe Rebilda DC blue shade, mixing tips type 11, intraoral tips type 4
- REF 1405 Pack 10 g QuickMix syringe Rebilda DC white shade, mixing tips type 11, intraoral tips type 4
- REF 2191 mixing tips type 11 – 50 pack
- REF 2142 intraoral tips type 4 – 50 pack
- REF 2139 intraoral tips type 1 (endo tip) – 50 pack



### Technical Data

Working time	2 min.
Setting time	2 min. (dentin shade)
Transverse strength (ISO 4049)	121 MPa
Shear bonding strength on dentin	22 MPa

Source: Prof. Dr. Jürgen Manhart, Munich / Germany



## Rebilda® Post System

Complete post & core system with fiber-reinforced resin posts

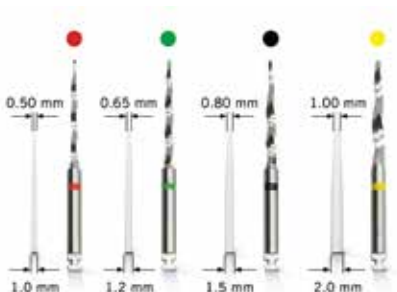


### Indications

Endodontic post build-up for support and anchorage of coronal restoration in situations with insufficient tooth substance

### Advantages

- Highly translucent for excellent esthetics
- High radiopacity (350% Al)
- Dentin-like elasticity for gentle root treatment
- Dentin-like translucency for esthetic restorations
- High retention rate for strong bond
- Excellent light conductivity and diffusion for use with dual-cured materials



Post illustrations are not actual size. Ø 1.0 mm is not included in the kit (REF 1770)

### Presentation

#### REF 1770 Intro Kit:

15 posts 3 drills: 5 posts each (Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm), 1 drill each (Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm)

#### REF 1782 Rebilda Post System Kit II:

5 posts each of (Ø 1.0 mm, Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm), 1 drill each of (Ø 1.0 mm, Ø 1.2 mm, Ø 1.5 mm, Ø 2.0 mm), 5 ml Ceramic Bond, 20 Futurabond U SingleDose, 10 g QuickMix syringe Rebilda DC dentin, accessories

#### Refills (posts):

Rebilda Post 1.0, 5 Posts, Ø 1.0 mm	REF 1775
Rebilda Post 1.2, 5 Posts, Ø 1.2 mm	REF 1772
Rebilda Post 1.5, 5 Posts, Ø 1.5 mm	REF 1773
Rebilda Post 2.0, 5 Posts, Ø 2.0 mm	REF 1774
Ceramic Bond, 5 ml Bottle	REF 1106

#### Refills (drills):

Rebilda Post 1.0, 1 Drill, Ø 1.0 mm	REF 1780
Rebilda Post 1.2, 1 Drill, Ø 1.2 mm	REF 1777
Rebilda Post 1.5, 1 Drill, Ø 1.5 mm	REF 1778
Rebilda Post 2.0, 1 Drill, Ø 2.0 mm	REF 1779



Cross-sections show even distribution of the glass fibers



Highly radiopaque

## Rebilda® Post GT

Bundled glass fiber-reinforced resin post



### Indications

Core build-up restorations with root posts for endodontically treated teeth

### Advantages

- Innovative bundled fine posts enable easy placement within any root canal morphology
- Minimizes the need to mechanically prepare root canals, preserving healthy tooth structure and saving valuable chair time
- Increases surface area within build-up restoration, maximizing adhesion and retention values
- Optimal adaptation to all canal anatomies for better ease-of-use
- All materials in the set are perfectly coordinated to maximize the success of the restoration
- **Futurabond U**
  - reliable self-curing
  - high bond strength without separate etching
- **Rebilda® DC**
  - also suitable for post cementation
  - cuts like dentin to minimize ditching
  - excellent physical properties enhance longevity
  - low setting temperature

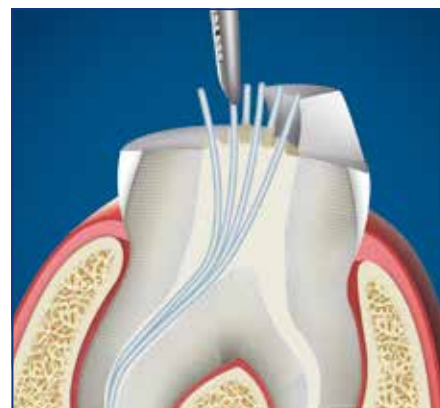
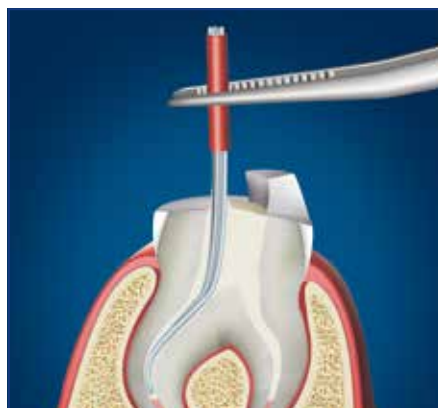
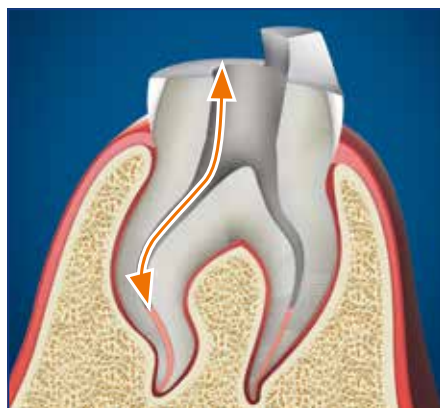
### Presentation

#### Rebilda Post GT - System

REF 1972 Kit 5 posts each of (~ ø 0.8 mm, ~ ø 1.0 mm, ~ ø 1.2 mm, ~ ø 1.4 mm), Ceramic Bond bottle 5 ml, Futurabond U SingleDose 20 pcs., Rebilda DC dentin QuickMix syringe 10 g, accessories

#### Refills Post GT:

5 x No. 4 (~ ø 0.8 mm)	REF 1973
5 x No. 6 (~ ø 1.0 mm)	REF 1974
5 x No. 9 (~ ø 1.2 mm)	REF 1775
5 x No. 12 (~ ø 1.4 mm)	REF 1776



## Quick Up®

Tissue colored implant pick-up system  
with new Quick Up method



### Indications

Self-cured composite cementation material for attachments such as ball, Locator® and telescopic anchors in full and partial dentures

Reattachment of secondary elements such as bar retainers in acrylic-based dentures

### Advantages

- Faster with Quick Up method
  - Work without vent holes and excess material removal
  - Under fill with 2.5 minute fast-setting, self-cured material
  - Finish with light-cured component
- Direct pick-up results in more accuracy compared to indirect method
- Complete system with checking and block out silicone – Fit Test C & B
- Low heat, self-curing material avoids tissue irritations
- Tasteless and odorless
- High bond strength to acrylic denture base
- Allows pick-up of any attachment

### Presentation

REF 1625 Kit 7.5 g QuickMix syringe, 2 g syringe Quick Up LC, 4 ml Adhesive, 5 ml QuickMix syringe Fit Test C & B, accessories

REF 1626 Pack 7.5 g Quick Up QuickMix syringe, type 10 mixing tips

REF 1627 Pack 2 g Quick Up LC syringe, type 44 intraoral tips

REF 1628 Pack 4 ml Quick Up adhesive

REF 2189 mixing tips type 10 – 50 pack

REF 2144 intraoral tips type 44 – 100 pack

REF 2247 single tim – 100 pack

REF 2315 mixing pallets –20 pack



### Quick Up Application



Implant with fitted attachments



Prosthetic base with the recesses for the attachments already created



Checking the accuracy of the fit with Fit Test C & B



Checking of attachments for fitting accuracy with Fit Test C & B



Blocking-out, covering of primary parts/gingiva with Fit Test C & B



Applying Quick Up from the QuickMix syringe



Applying Quick Up LC to correct deficits and superficial defects



Cemented attachment in the prosthesis

## Ceramic Bond

One component coupling agent (Silane)  
available in a bottle or SingleDose



NEW  
SINGLEDOSE

### Indications

Coupling agent for achieving optimal chemical adhesion between silicate or aluminum oxide ceramics (incl. zirconium dioxide) and composite materials



### Advantages

- Provides optimal conditions for a permanent bond between the indirect restoration and the resin cement

### SingleDose

- No mixing required
- Easy, quick and hygienic
- No additional devices required
- No spilling in any position

### Presentation

REF 1107 Pack 50 x .05 ml SingleDose, accessories  
REF 1106 5 ml bottle  
REF 2247 single tim – 100 pack  
REF 2315 mixing pallets - 20 pack

## Bifix® SE

Dual-cured, universal, self-adhesive resin cement



### Indications

#### Cementation of:

Crowns

Bridges

Inlays and onlays

Endodontic posts made from ceramic, zirconium dioxide and metal



### Advantages

- Time saving – no additional bond, prime or etch steps needed
- Ease of use – gel-phase cleanup, no refrigeration, no hand-mixing or trituration required
- High bond strength without an adhesive
- High flexible strength and low water solubility for long-term success
- Low 5–10 micron film thickness – cuts down on adjustment time
- Compatibility with common materials – ceramic and zirconia, CAD/CAM materials, PFMs and metal restorations
- Efficient self-cure mode – sets up completely without any light
- Radiopaque for excellent identification under x-ray

### Presentation

REF 1784 Kit 3 x 5 g QuickMix syringes, shades U, T and WO, mixing tips type 14 and 15, type 1 intraoral tips  
REF 1785 Refill 5 g QuickMix syringe, shade U (universal), mixing tips type 14 and 15, type 1 intraoral tips  
REF 1786 Refill 5 g QuickMix syringe, shade T (transparent), mixing tips type 14 and 15, type 1 intraoral tips  
REF 1787 Refill 5 g QuickMix syringe, shade WO (white-opaque), mixing tips type 14 and 15, type 1 intraoral tips  
REF 2194 mixing tips type 14 – 50 pack  
REF 2195 mixing tips type 15 – 50 pack  
REF 2139 intraoral tips type 1 – 50 pack

### Technical Data

Working time (extra-oral)	90 sec
Setting time	4 min
Film thickness	5–10 µm
Curing depth	2 mm/20 sec
Water solubility	1 µg/mm <sup>3</sup>
Flexural Strength	160 MPa (LC), 150 MPa (CC)
Radiopacity	227 %Al
pH (at application)	2.5 (acidic)
pH (after curing)	neutral

## Bifix® QM

Dual-cured, radiopaque, resin-based adhesive cement system



### Indications

#### Adhesive cementation of:

- Inlays and onlays
- Crowns (full and partial)
- Veneers, facets
- Pins and posts
- Bridges and adhesive bridges (Maryland bridges)

### Advantages

- Easy gel phase clean-up
- Truly universal for all luting indications and all substrates
- Low film thickness saves occlusal adjustment time
- Low water uptake avoids shade shifting and bond failures
- Fast bonding with dual-cure self-adhesive Futurabond DC
- High radiopacity for easy x-ray identification

20 sec  
light-curing

DC  
dual-curing

auto  
mix

3  
shades

### Presentation

- REF 1217 Kit 10 g syringe universal, Futurabond DC 4 ml liquid 1, 4 ml liquid 2, 5 ml Ceramic Bond, accessories
- REF 1218 Refill 10 g syringe universal
- REF 1219 Refill 10 g syringe transparent
- REF 1759 Refill 10 g syringe white-opaque
- REF 1106 Refill 5 ml Ceramic Bond
- REF 1163 Pack Futurabond DC 4 ml liquid 1, 4 ml liquid 2
- REF 2191 mixing tips type 11 – 50 pack
- REF 2142 intraoral tips type 4 – 50 pack
- REF 2315 mixing pallets – 20 pack

### Technical Data

Film thickness	5–10 µm
Working time	2.5–3.5 min
Setting time	3 min after inserting the restoration
Curing depth	4 mm/10 s
Water solubility	<0.3 µg/mm <sup>3</sup>
Compressive strength	297 MPa
Flexural strength	138 (LC) / 113 (CC) MPa



Excellent adhesion between Bifix and ceramic.

Source: Prof. Behrend University of Rostock 2006

## Meron®/AC

### Glass ionomer cement



#### Indications

Cementation of crowns, bridges, inlays, onlays, pins, posts and orthodontic bands

**Meron**  
Powder and Liquid - Hand Mixed

**Meron AC**  
Direct-activation application capsules for less waste, better consistency and less mess.



#### Advantages

- Very good flow properties for good wetting behavior
- Low film thickness (15–20 µm) that saves occlusal adjustment time
- High translucency for better esthetic results with ceramics
- Easy excess removal – saves time
- High fluoride release
- High bond strength

#### Presentation

##### Meron

REF 1086 Pack 35 g powder, 15 ml liquid

REF 1090 Eco Pack 15 g powder, 7 ml liquid

##### Meron AC

REF 1242 Pack 50 capsules

REF 2331 1 AC Applicator Type 1

REF 2334 1 AC Applicator Type 2

REF 9050 GIC Mixing Device

## Meron® Plus/AC

### Resin modified glass ionomer cement



#### Indications

Cementation of crowns, bridges, inlays and onlays made from ceramic, zirconium and metal

**Meron Plus**  
Powder and Liquid - Hand mixed

**Meron Plus AC**  
Direct activation application capsules for less waste, better consistency and less mess.



#### Advantages

- Extremely thin film thickness (< 17 µm)
- Prolonged soft-elastic setting phase offers more time for convenient removal of excess material
- Low setting temperature
- Excellent biocompatibility
- Excellent chemical-physical properties due to the VOCO glass ionomer technology

#### Presentation

##### Meron Plus

REF 1731 15 g powder

REF 1731 10 ml liquid

##### Meron Plus AC

REF 1736 Pack 50 application capsules

REF 1737 Pack 150 application capsules

REF 2331 1 AC Applicator Type 1

REF 2334 1 AC Applicator Type 2

REF 9050 GIC Mixing Device

#### Technical Data

Working time (ISO 9917-2)	2 min
Intraoral setting time (ISO 9917-2)	3–5 min
Compressive strength (ISO 9917-1)	111 MPa
Film thickness (ISO 9917-2)	11 µm
Water solubility (ISO 7489)	0.4%
Shear bond strength to dentin (ISO/TS 11405)	8 MPa
Adhesion to metal (ISO/TS 11405)	9 MPa
Radiopacity (ISO 9917-2)	> 200 %Al

## Meron® Plus QM

Paste-to-Paste resin modified glass ionomer cement  
in a QuickMix syringe



### Indications

#### Cementation of:

- Metal-based inlays, onlays, crowns and bridges
- High-strength (zirconium dioxide-based) all-ceramic crowns and bridges
- High-strength all-ceramic inlays
- Metal, ceramic and fiber posts

### Advantages

- Twice the bond strength to dentin vs. other leading brands
- Up to twice the adhesive values to Zirconium Dioxide than other leading brands
- Quick and easy clean-up of excess material with optional tack cure
- Low film thickness for a precise marginal fit
- Self-adhesive: secure and quick bonding without primer or conditioner
- QuickMix syringe for optimal application and precise mixing



### Presentation

- REF 1727 Pack 8.5 g QuickMix syringe
- REF 1728 Set 3 × 8.5 g QuickMix syringe
- REF 2189 mixing tips type 10 – 50 pack

### Technical Data

3-point flexural strength (after thermocycling**) (ISO 9917-2)	31.0 MPa
Compressive strength (1 month*) (ISO 9917)	111 MPa
Shear bond strength to human dentin (ISO/TS 11405)	11.3 MPa
Shear bond strength to human enamel (ISO/TS 11405)	9.1 MPa
Shear bond strength to ZrO <sub>2</sub> (24 h*) (ISO/TS 11405)	11.8 MPa
Shear bond strength to lithium disilicate (24 h*) (ISO/TS 11405)	8.8 MPa
Shear bond strength to non-precious metal (ISO/TS 11405)	10.3 MPa
Film thickness (ISO 9917-2)	11.7 µm
Water solubility (ISO 7489)	0.36%
Working time (ISO 9917-2)	120 sec.
Setting time (ISO 9917-2)	4 min 30 sec.
Radiopacity (ISO 9917-2)	198 %Al
Fluoride release (60 d, 37 °C water storage)	662 ppm

### Meron Plus QM Clinical Case



Prepared tooth 11 with chamfer preparation to accommodate the crown



Zirconia crown on tooth 11 on the plaster model



Application of Meron Plus QM in the restoration



Insertion of the restoration



Short-term light-curing (tack curing)



Easy removal of excess material



Additional removal of excess material in the approximal areas using dental floss



Completed treatment

Source: Prof. Dr. Jürgen Manhart, Munich / Germany

**BrackFix®**

Light-cured orthodontic bracket adhesive

**Indications**

Direct attachment of orthodontic metal and ceramic brackets

**Advantages**

- Optimal adhesive consistency provides stable positioning of the bracket on the tooth surface
- Fluorescent Technology reveals adhesive residues under UV light after bracket removal for easy identification
- Enables an easier, quicker and more precise residue removal step
- Light-cured to give practitioner greater control over the required working time
- Can be exposed to loads (chewing forces) immediately after polymerization

**Presentation**

REF 1205 Kit 2 × 4 g adhesive syringes, 6 ml primer bottle, accessories
REF 1206 SE Kit 2 × 4 g adhesive syringe, 40 primer SingleDose, accessories
REF 1208 Refill 6 ml primer bottle
REF 1207 Refill 2 × 4 g adhesive syringe
REF 1209 Refill 50 primer SE SingleDose, accessories
REF 2247 Single Tim application brushes – 100 pack
REF 2315 mixing pallets – 20 pack

20 sec  
light-curing

**BrackFix Application**

Etching of enamel surface



Application of BrackFix Primer



Simple application of BrackFix Adhesive to bracket



Simple and secure positioning on the tooth



Tooth 8 (upper right central incisor) prior to polymerization and removal of excess adhesive



Under UVA light (for demonstration purposes)



Illumination with UVA light following removal of brackets



Controlled removal of BrackFix residues



Final check with UVA light: No adhesive residues remain

Source: Dr. Felipe Moura / Brazil



## Ufi Gel® SC

A-silicone based permanent soft denture relining material in a 1:1 cartridge system



### Indications

Permanent soft relining for total and partial dentures

To relieve pressure from pressure spots

To dam the palatal vibrating line

In cases of flabby ridge and insufficient adhesion

To cushion sharp-edged alveolar processes

To support the healing process in implantology

### Advantages

#### In-Office

- Complete chairside relining within minutes in one appointment
- Extremely high adhesion between denture and relining material with a special adhesive
- Biocompatible, tasteless and odorless
- Esthetic stable color, shade adaptation effect

#### Lab

- Fewer working steps than conventional cold-curing products
- Only 1 minute processing of adhesive and short time period in the pressure unit
- Relining can be repaired immediately after setting and up to 14 days after initial relining

### Presentation

REF 2041 Kit 50 ml cartridge Ufi Gel SC, 10 ml adhesive, each 10 ml glazing base/catalyst, 10 mixing tips type 8, accessories

REF 2040 Refill 50 ml cartridge, 10 mixing tips type 8

REF 2029 Refill 10 ml Ufi Gel SC adhesive

REF 2047 Refill each 10 ml glazing base/catalyst

REF 2187 mixing tips type 8 – 50 pack

#### Trimming disk:

REF 2049 trimming discs – 10 pack



# Ufi Gel® hard C

Direct hard denture relining material in a 1:1 cartridge based on composite technology



## Indications

- Hard, permanent chairside relining
- Direct and indirect relining
- Total or partial relining
- External relinings (extended care living facility, homes for the disabled, hospitals)
- Extensions of denture margins
- Repairs and enlargements
- Adaptation layer by layer over the course of years

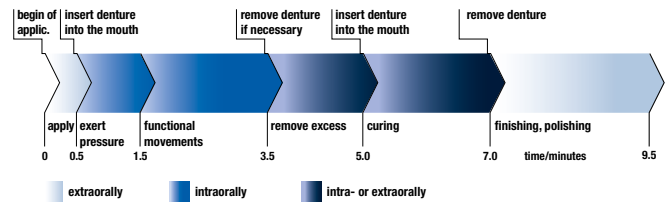
## Presentation

- REF 2215 80 g cartridge, 10 ml adhesive, mixing tips type 8
- REF 2218 Intro Kit 80 g cartridge, 10 ml adhesive, dispenser type 2, mixing tips type 8
- REF 1207 Refill 80 g cartridge, mixing tips type 8
- REF 2217 10 ml adhesive bottle
- REF 2187 mixing tips type 8 – 50 pack
- REF 2315 mixing pallets – 20 pack

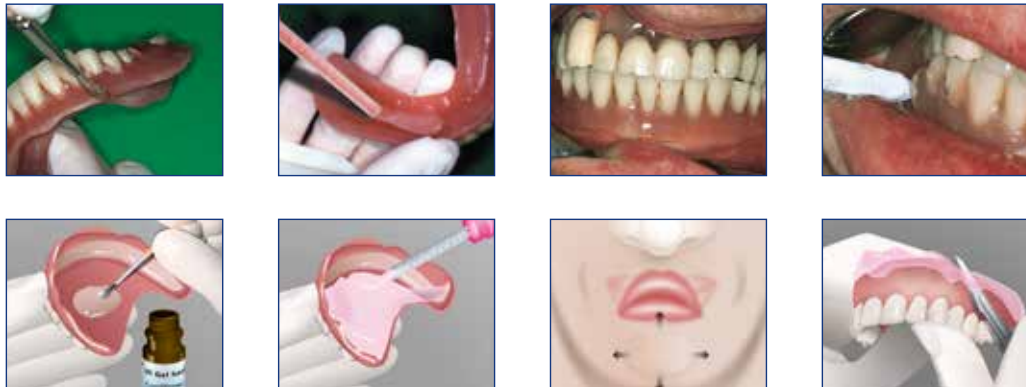
## Advantages

- Complete chairside hard relining in 10–15 minutes
- MMA-free
- Biocompatible with a neutral taste and smell
- Low exothermic temperature (98.6° F)
- Bubble-free automix application ensures a smooth surface
- Esthetic and color stable
- Achieves the same hardness, finishing and cleaning as laboratory-processed relines
- Easy and time-saving working steps

## Hard chairside relining in only 10 minutes ...



## As simple as an impression



Apply adhesive

Apply Ufi Gel hard C

Functional movements

Remove excess

... then let denture full cure in the mouth.

## Fit Test® C & B

Control silicone to check the fit of prosthetic pieces



### Indications

For the precise control and fit of marginal gaps and adaptation of:

- crowns (full and partial)
- bridges
- inlays/onlays
- cast metal cores, crowns
- metal denture bases
- attachments and other secondary parts of dentures

### Advantages

- Fast diagnostic aid/tool for all restorative applications
- QuickMix syringe for easy and precise application
- Optimal blue color for metal and ceramic restorations
- Fast results due to short 45 sec. setting time
- Extremely tear resistant for complete and easy one-piece removal

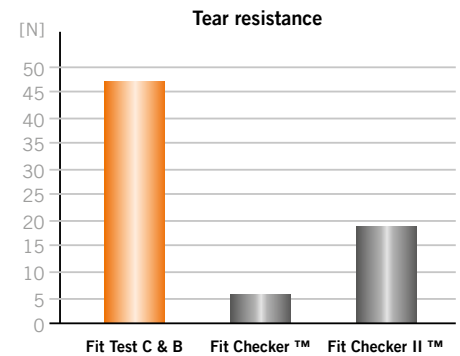
auto  
mix

### Presentation

REF 2095 5 ml QuickMix syringe,  
mixing tips type 9  
REF 2188 mixing tips type 9 – 50 pack

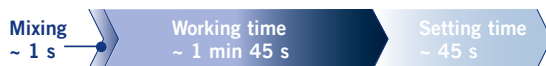
### Technical Data

Working time	max. 1 min 45 sec.
Setting time	45 secs. – 1 min 15 secs.
Tear resistance	48.5 N

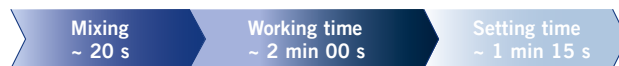


Source: VOCO GmbH in-house test analogue ASTN D-624-98  
VOCO is not the holder of the mentioned trade marks

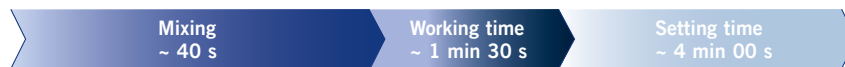
### Time required [Fit Test C & B]



### Time required [Competitor A]



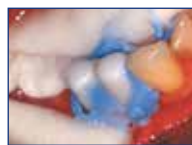
### Conventional wash material [Competitor B]



Situation after preparation



Direct application of Fit Test C & B



Seating and intraoral setting



Removal of the restoration



Non-optimal fit is visualized in the restoration ...



... and after removal of Fit Test C & B.

Source: Dr. Arne Kersting, Germany



# DIGITAL TECHNOLOGY

## CAD/CAM Blocks/Disc

Grandio blocs	70
Grandio disc	71
Structur CAD	71

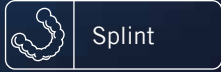
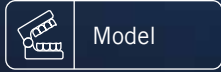
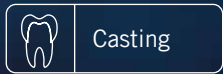
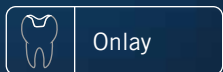
## Polymerization Unit

OtoFlash	72
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## V-Print Materials

V-Print model (beige)	73
V-Print model fast	73
V-Print SG	74
V-Print splint	74
V-Print Try-In	75
V-Print cast	75
V-Print tray	76

# DIGITAL WORKFLOW



<sup>1</sup> Computer Aided Manufacturing  
<sup>2</sup> Computer Aided Design

# Grandio blocs

Nano-ceramic hybrid CAD/CAM block



## Indications

Crowns, inlays, onlays, veneers  
Implant supported crowns

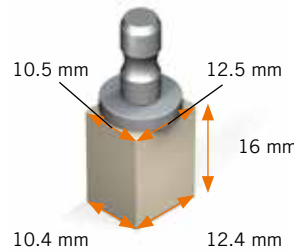
## Advantages

- 86% filled for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- No firing or glazing required, reducing steps and saving time for true one-appointment dentistry
- Easy intraoral polishability, characterization and repair

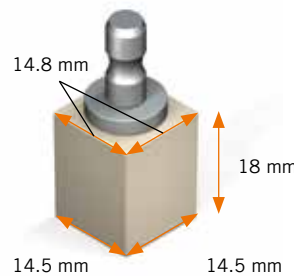


Source: Dr. Felipe Moura, Brazil

### Gr. 12



### Gr. 14L



## Presentation

REF 6000 Blocks Kit 2 x Gr. 12 (A2 LT, A2 HT),  
3 x Gr. 14L (A1 LT, A2 LT, A2 HT),  
Bifix QM QuickMix syringe 10 g universal,  
Futurabond U SingleDose 5 pcs.,  
Ceramic Bond bottle 5 ml, Dimanto set,  
accessories

Shade	5 x Gr. 12 Low translucent (LT)	Shade	5 x Gr. 14L Low translucent (LT)
A1 LT	REF 6003	A1 LT	REF 6018
A2 LT	REF 6004	A2 LT	REF 6019
A3 LT	REF 6005	A3 LT	REF 6020
A3.5 LT	REF 6006	A3.5 LT	REF 6021
B1 LT	REF 6007	B1 LT	REF 6022
C2 LT	REF 6008	C2 LT	REF 6023
BL LT	REF 6009	BL LT	REF 6024
Shade	5 x Gr. 12 High translucent (HT)	Shade	5 x Gr. 14L High translucent (HT)
A1 HT	REF 6012	A1 HT	REF 6027
A2 HT	REF 6013	A2 HT	REF 6028
A3 HT	REF 6014	A3 HT	REF 6029
A3.5 HT	REF 6015	A3.5 HT	REF 6030
Mixed (each 1x A1 LT, B1 LT, C2 LT, BL LT, A1 HT)	REF 6033	Mixed (each 1x A1 LT, B1 LT, C2 LT, BL LT, A1 HT)	REF 6034

## Technical Data

Compressive strength	530 MPa analog ISO 9917
Biaxial Flexural strength	333 MPa
Modulus of elasticity	18.28 GPa
Thermal expansion coefficient	16.0·10 <sup>-6</sup> K <sup>-1</sup>
Filler content	86% by weight
Radiopacity	308 %Al
Water absorption	13.6 µg/mm <sup>3</sup> analog ISO 4049
Water solubility	< 0.1 µg/mm <sup>3</sup> analog ISO 4049
Vickers hardness (HV)	154.6
Two-body-wear (specimen)	59.9 µm
Two-body-wear (antagonist)	98.1 µm

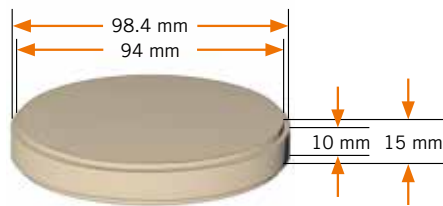
## Grandio disc

Nano-ceramic hybrid CAD/CAM disc



### Indications

Crowns, inlays, onlays, veneers, implant supported crowns



### Advantages

- 86% filled for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- No firing or glazing required, reducing steps and saving time
- Zero shrinkage allows for 20% more restorations per disc than zirconia

### Presentation

Shade	Low translucent (LT) Ø 98.4 mm, 15 mm	Shade	High translucent (HT) Ø 98.4 mm, 15 mm
A1 LT	REF 6050	A1 HT	REF 6057
A2 LT	REF 6051	A2 HT	REF 6058
A3 LT	REF 6052	A3 HT	REF 6059
A3.5 LT	REF 6053	A3.5 HT	REF 6060
B1 LT	REF 6054		
C2 LT	REF 6055		
BL LT	REF 6056		

### Technical Data

Compressive strength	530 MPa analog ISO 9917
Biaxial Flexural strength	333 MPa
Modulus of elasticity	18.28 GPa
Thermal expansion coefficient	$16.0 \cdot 10^{-6} \text{ K}^{-1}$
Filler content	86% by weight
Radiopacity	308 %AI
Water absorption	$13.6 \mu\text{g}/\text{mm}^3$ analog ISO 4049
Water solubility	$< 0.1 \mu\text{g}/\text{mm}^3$ analog ISO 4049
Vickers hardness (HV)	154.6
Two-body-wear (specimen)	$59.9 \mu\text{m}$
Two-body-wear (antagonist)	$98.1 \mu\text{m}$

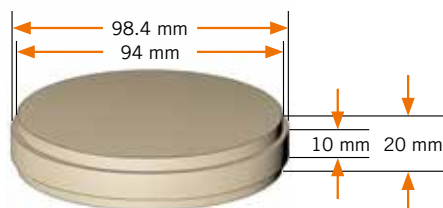
## Structur<sup>®</sup> CAD

CAD/CAM Composite for Long-term Temporary Crown & Bridges



### Indications

Temporary bridges spanning up to two pontics  
Temporary abutment crowns  
Temporary crowns



### Advantages

- Composite based for higher strength and esthetics
- Temporaries last for up to three years (1 year in CAN)
- High gloss, shade stability and natural fluorescence
- Excellent edge stability and fracture resistance
- Customizable and repairable with composite
- No need to use an MMA primer
- Economical manufacturing of temporaries

### Presentation

Shade	Disc Ø 98.4 mm, 20 mm
A1	REF 6071
A2	REF 6072
A3	REF 6073
Shade	Block 5 x No. 40L
A1	REF 6076
A2	REF 6077
A3	REF 6078



## OtoFlash

Post-curing unit for light-curing resin materials



### Advantages

- Short curing times as a result of two underside flash bulbs
- Reliable curing due to intensive light output in a wavelength range of 280–580 nm
- Available in two models: OtoFlash Classic and OtoFlash with Protective Gas Line (gas not provided, should be obtained locally)

### Product overview

The Otoflash G171 is a flash-light polymerization device for the final curing of 3D printed appliances. It has two flash bulbs at the bottom that are operated at a frequency of 10 flashes per second, making it one of the fastest post-curing units on the market. When flashing, the flash bulbs generate highly intensive light radiation, which ranges from 300 to 700 nm. Because of this extremely concentrated light radiation, the printed parts come to their final hardness more thoroughly, and thus the physical values are enhanced. In addition, this concentrated light is responsible for reducing the residual monomer count, meeting biocompatibility demands for parts that will be used intraorally.

It is available with a protective nitrogen gas port, which when connected to a nitrogen source, will displace oxygen in the curing chamber, thereby reducing the exposure of the printed pieces to oxygen. This feature is to prevent the formation of an oxygen-inhibited layer, which can weaken the final result and quality of the printed part.

Nitrogen source should be obtained locally.

### Presentation

REF 9133 OtoFlash  
REF 9130 OtoFlash – with connection for inert gas  
REF 9132 Tray

### Technical Specifications

- Flash frequency: 10 flashes per second
- Dimensions of polymerization chamber: 120 x 120 x 50 mm / 4.72 x 4.72 x 1.97 in
- Rated voltage: 100, 115, 230 volt AC, adjustable by switch
- Power input: 250 watt
- Spectral distribution: 280–700 nm
  - maximum between 400 and 500 nm
- Digital timer: adjustable from 1 to 9.999 flashes
- Dimensions: 310 x 310 x 140 mm / 12.2 x 12.2 x 5.5 in
- Weight: 6 kg / 13.3 lbs



## V-Print® model (beige)

Material for 3D printing models



### Ideal for:

Precision models for any type of dental need, including but not limited to:

- Functional crown and bridge models
- Models with dies
- Diagnostic models
- Cast models for thermoforming aligners or other appliances
- Orthodontic models
- Implant models



### Advantages

- No shaking required – V-Print Model is always immediately usable, with no sedimentation separation or need for time-consuming mixing
- Suitable for overnight print jobs – does not need to be continually mixed to avoid sedimentation
- Models can be ground precisely, without undesirable changes (e.g. as caused by heat influx)
- Non-scratch, very hard surface allows for trial fitting without deformation
- Suitable for thermoforming – no deformation caused by heat

### Presentation

REF 6042 1,000 g bottle

- High degree of precision for optimally fitting restorations
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO. For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® model fast

Material for 3D printing models



NEW

### Ideal for:

Generative production of dental models, especially for the dental deep-drawing process (e.g. aligner or retainers)



### Advantages

- Time-saving – for fast printing in high layer thickness without loss of quality
- Suitable for vacuum forming – temperature resistant as a basis for e.g. aligner or retainer splints
- High strength and material saving – the high strength allows material-efficient hollowing of the models

### Presentation

REF 6125 1,000 g bottle

- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO. For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® SG

Material for 3D printing transparent surgical guides



### Indications

Dental drilling templates



### Advantages

- Autoclavable at 250 °F/134 °C
  - Optimal flow properties
  - High precision for optimal fit
  - Excellent green-state stability, so not subject to distortion
  - High flexural stability
  - Biocompatible
  - Neutral flavor
  - FDA cleared class I medical device
  - Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.
- For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

### Presentation

REF 6043 1,000 g bottle

## V-Print® splint

Material for 3D printing of splints, night-guards and other diagnostic parts



NEW

### Indications:

Production of:  
Therapeutic splints  
Patient-matched night guards/splints-  
Auxiliary parts and functional parts for  
diagnostics



### Advantages

- FDA 510k cleared
  - Biocompatibility and neutral flavor ensure high level of patient acceptance
  - 385 nm wavelength allows esthetically pleasing clear-transparent results
  - Rigid with high flexural strength for durable orthodontic objects
  - Easy to polish and stain resistant
  - Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.
- For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

### Presentation

REF 6044 1,000 g bottle

## V-Print® Try-In

Light-curing resin for the generative production of try-ins for prosthetics



NEW

### Indications

Try-ins for total and partial prosthetics  
Transfer and grinding templates  
Correction impressions and occlusal impressions



### Advantages

- Verification and possibility to assess the fit, occlusion, functionality, phonation and esthetics before the production of prosthetics
- Biocompatible
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.  
For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

### Presentation

REF 6049 1,000 g bottle

## V-Print® cast

Light-curing resin for the generative production of burn-out objects for casting and pressing processes



NEW

### Ideal for:

Production of objects which can be burned out without leaving any residues for casting processes and press ceramics



### Advantages

- Reliable printing process – non-sedimenting over the entire printing duration
- Reproducible – simple duplication prior to casting
- Quick finishing process – precisely printed objects allow for high quality of reproduction
- High form and edge stability – reliable checking of occlusion and lateral movements
- Finishing at an early stage – instrument-friendly finishing of objects in light-cured state
- High compatibility – can be used with commercially available phosphate-bonded investment materials
- Restorations free of impurities – V-Print cast burns without residue
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.  
For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

### Presentation

REF 6045 1,000 g bottle

## V-Print® tray

Light-curing resin for the generative manufacture of individual trays, base plates and occlusal registrations using CAD / CAM technology



NEW

### Indications

Individual impression and function trays

Bases for bite templates and wax assemblies for full dentures

Occlusal registrations



### Advantages

- Timesaving – printable in high layer thicknesses (up to 200 µm)
  - Distortion-free impressions – thanks to the great strength
  - Universal - suitable for all types of impression material
  - Rapid and efficient – object printing including the forming of functional peripheries, retention elements and gaps for implant impressions.
  - Biocompatible
  - FDA cleared class I medical device
  - Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.
- For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

### Presentation

REF 6047 1,000 g bottle

# TIPS, LAB, DISPENSERS, ETC.

## Cleaning Agent/Custom Trays

Traypurol tabs	78
Individo Lux	78
Profibase	78

## Devices & Disposables

Mixing Pallet, Pele Tim, Dispenser, Applicator, Activator	79
Mixing Tips	80
Intraoral tips	80
Tims, Brushes, Polishing Disc, etc.	81

## Individo® Lux

DE Vorgeformte individuelle Abformplatten, hochfest	78
GB Preformed individual impression trays, high strength	78
FR Porte-empreintes individuels pré-moldés, haute résistance	78
ES Cubetas de impresión individuales pre-moldadas, alta resistencia	78
PT Moldeiras individuais pré-moldadas, alta resistência	78

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VC 52 002400 E0 1111 18

## Traypurol tabs

Activated tabs for cleaning impression trays and instruments



### Advantages

- Quickly removes alginates and cements
- Completely dissolves in water without scrubbing
- Dosing is simple
- 2 tabs per quart of cleaning solution
- Biodegradable, pH-neutral
- Gentle to material, safe for all rust-proof metals (including aluminum) and plastics
- Solution is effective for up to 72 hours

### Presentation

REF 2355 Pack – 50 tabs



## Individuo Lux

Light-curing custom tray material in two contoured forms for maxillae or mandibles



### Advantages

- Very stable and non-sticky trays
- Peppermint flavor and pleasant smell
- Short curing time under halogen light devices or UVA-light
- Available in blue or transparent shade

### Presentation

Blue opaque  
REF 2402 Pack 50 maxillae  
REF 2403 Pack 50 mandibles  
Blue transparent  
REF 2408 Pack 50 maxillae  
REF 2409 Pack 50 mandibles

## Profibase

Light-curing pink-transparent base plates for easy and economical production of wax models



### Advantages

- Stable and pressure-proof
- Tissue-like shade increases acceptance by dentists and patients
- Peppermint flavor and pleasant smell
- Short curing time under halogen light devices or UVA-light

### Presentation

REF 2111 Set 25 maxillae, 25 mandibles  
REF 2112 Pack 50 maxillae  
REF 2113 Pack 50 mandibles

## Mixing Pallet



### Presentation

REF 2315 Mixing Pallets – 20 pack

## Pele Tim

Pele Tim: Available shapes and sizes



Special foam pellets for applying medical products in liquid or paste form without exerting any pressure. Suitable for painting infected alveoli and use as an endodrain

### Presentation

REF 2250 No. 0, mini,  $\varnothing$  3 mm, approx. 3,000 pellets  
 REF 2252 No. 1, small,  $\varnothing$  4 mm, approx. 3,000 pellets  
 REF 2253 No. 2, medium,  $\varnothing$  5 mm, approx. 1,000 pellets  
 REF 2254 No. 3, large,  $\varnothing$  8 mm, approx. 500 pellets  
 REF 2255 No. 4, V-shaped, 6 x 8 mm, approx. 500 pellets

## Dispenser



### Presentation

REF 2158 type 2 for Structur 3, Structur Premium, Structur 2 SC, Provicol C, Ufi Gel SC, Registrado X-tra, V-Posil (1:1/2:1)  
 REF 2259 type 3 for Rebuilda DC (DS25 1:1)

## AC Applicator



Type 2

**Type 1:** Forceps-type applicator to directly apply the contents of VOCO application capsules (AC) into the cavity

**Type 2:** Ergonomically designed applicator to dispense the contents of the VOCO application capsules (AC) directly into the cavity

### Presentation

REF 2331 1 AC Applicator Type 1  
 REF 2334 1 AC Applicator Type 2

## AC Activator



Device to activate VOCO application capsules (AC)

### Presentation

REF 9300 1 AC Activator

## Caps Gun



Low force composite dispenser  
**VisCalor Dispenser:** Preheating dispenser for VisCalor/ VisCalor bulk, and all other VOCO composites packaged in a capsule

### Presentation

REF 9301 Caps Dispenser compatible with all VOCO composite, ORMOCER, nano-ORMOCER, provisional composite and compomer capsules  
 REF 9143 VisCalor Dispenser – Preheating device

## Mixing Tips



REF 2185 mixing tips type 6 for Structur 3, Structur Premium, Structur 2 SC, Provicol C – 50 pack



REF 2191 mixing tips type 11 for Rebuilda DC QM syringes, Bifix QM, Fit Test C&B with Quick Up method, Grandio® Core Dual Cure – 50 pack



REF 2195 mixing tips type 15 with intraoral tips type 1 for Bifix SE – 50 pack



REF 2202 mixing tips type 20 (Die Silicone) – 50 pack



REF 2203 mixing tip type 30 for V-Posil Heavy Soft Fast, Mono Fast and Putty Fast 380 ml Cartridge - 50 pack



REF 2186 mixing tip type 7 for V-Posil Light Fast and X-Light Fast – 50 pack



REF 2192 mixing tips type 12 for Rebuilda DC in cartridge – 50 pack



REF 2196 mixing tips type 16 for V-Posil Heavy Soft Fast, V-Posil Mono Fast, and Registrado X-tra/Clear/Scan for intraoral tips type 2 – 50 pack OR type 3 – 50pk



REF 2187 mixing tips type 8 for Ufi Gel SC, Ufi Gel hard C – 50 pack



REF 2189 mixing tips type 10 for Provicol QM, Structur 3 (in the QuickMix syringe), Structur 2 (in the QuickMix syringe), Meron Plus QM, Provicol QM / QM Plus / QM Aesthetic, Quick Up – 50 pack



REF 2194 mixing tips type 14 for Bifix SE – 50 pack



REF 2199 mixing tip type 19 (bendable) for Rebuilda DC



REF 2188 mixing tips type 9 for Fit Test C & B, Bifix Temp – 50 pack

## Intraoral Tips



REF 2146 pack type 41 for Ionoseal, Grandio/SO Flow, Admira Fusion Flow, Calcimol LC, etc. – 100 pack



REF 2147 pack type 45 for Amaris Gingiva, GrandioSO Light Flow, Grandio Seal – 100 pack



REF 2148 pack type 46 for GrandioSO Heavy Flow, x-tra base, Admira Fusion x-base, Clip Flow – 100 pack



REF 2144 pack type 44 for Amaris Flow, Admira Flow, GrandioSO Light Flow, Quick Up LC – 100 pack



REF 2131 pack type 47 for Calcicur – 30 pack



REF 2139 pack type 1 for Rebuilda DC QM syr., Bifix SE, Bifix QM, Fit Test C & B, direct root canal application – 50 pack



REF 2140 pack type 2 for Registrado X-tra, Registrado Clear and Registrado Scan – 50 pack



REF 2141 pack type 3 for Rebuilda DC in cartridge, V-Posil Light Fast and X-Light Fast – 50 pack



REF 2142 pack type 4 for Rebuilda DC QM syringes, Bifix QM, Grandio Core Dual Cure – 50 pack



REF 2132 pack type 48 for Vococid – 50 pack



REF 2133 pack type 6 for V-Posil Mono Fast – 50 pack



REF 2310 pack type 42 for Vococid – 30 Pack



**Endo Tim**



REF 2246 Brushes for applying bonding agents and varnishes into the root canal – pack 50 Endo Tim to be used in the root canal – 50 pack

**Single Tim**



REF 2247 Application brushes for Futurabond NR/DC/M/M+/U SingleDose and Ceramic Bond – 100 pack

**Easy Brush**



REF 2245 Application brushes for Profluorid L, Profluorid Varnish and Easy Glaze – 50 pack

**Micro Tim**



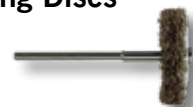
REF 2249 Application brushes for Admira Protect – 100 pack

**Brush Holder**



REF 2338 Disposable brush holder for Micro Tim for Admira Protect – 5 pack

**Polishing Discs**



REF 2049 trimming discs – 10 pack for Ufi Gel SC without mandrel

**VisCalor® Dispenser Replacement Sleeves**



REF 9145 Protective sleeves for Viscalor Dispenser – 100 pack

**VisCalor® Dispenser Changeable Top**



REF 9144 Changeable tops – 2 pcs





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