CATALOG

2022
2023

İTENA®
CLINICAL PRODUCTS

REFLECTYS
Universal composite for anterior and posterior restorations

TOTAL C-RAM
Self-adhesive and self-etching resin cement for final bonding of crowns, bridges, inlays, onlays, veneers and posts

DENTOCROWN HD
Chemically cured composite resin for making temporary crowns and bridges

DENTOCORE BODY
Core build-up and post cementation composite material

MTA BIOSEAL
Bioceramic cement for root canal obturation

DENTOCLIC
Post kit for final direct reconstructions

MTA BIOREP
Bioceramic repair cement

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ENDODONTICS

MTA BIOREP
OBTURYS
MTA BIOSEAL

MTA BIOREP

Bioceramic repair cement

INDICATIONS

- Repair cement for use on pulp or root canal prior to obturation
- Ideal for cases of **pulp capping** on permanent teeth, canal perforation, pulpotomy, internal resorption and apexification

2 mixing methods: manual or automatic

ADVANTAGES

- Remineralization of periradicular tissue **to promote lesion repair**
- Regenerative product for effective, biological obturation of root perforations (canal and furcation)
- **Rapid 15 min setting time** for treatment in a single session
- **Hydrophilic:** can be used even in a moist environment
- Formulated with calcium tungstate: **does not cause tooth discoloration**

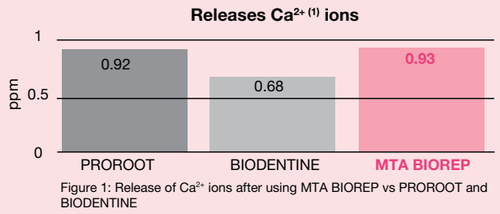


Figure 1: Release of Ca^{2+} ions after using MTA BIOREP vs PROROOT and BIODENTINE

Source: JOURNAL OF ENDODONTICS - Ion Release, Porosity, Solubility, and Bioactivity of MTA Plus Tricalcium Silicate, Gandolfi et al. 2014

Product references

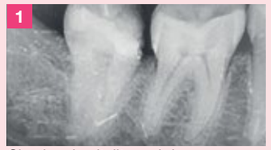
2-patient MTA BIOREP Kit MTA-BRP2.2

2 capsules of MTA powder + 2 bottles of setting activator

5-patient MTA BIOREP Kit MTA-BRP5.5

5 capsules of MTA powder + 5 bottles of setting activator

PROTOCOL - PULP CAPPING



Check pulp vitality and do a preoperative X-ray to evaluate the absence of periapical lesions and radicular edification

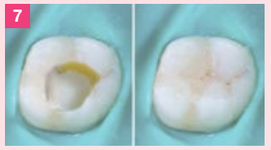
Prepare an operating field (barrier): the tooth must be isolated to prevent any contamination

Rinse the cavity with a non-irritating sterile solution and dry gently

Mix the MTA BIOREP powder with the liquid following the mixing instructions (manual or machine)

Cover the exposed site with MTA BIOREP using an amalgam stopper

Wait 15 minutes for the MTA BIOREP to set



Place a watertight restoration over the MTA BIOREP to prevent any bacterial contamination

Final X-ray

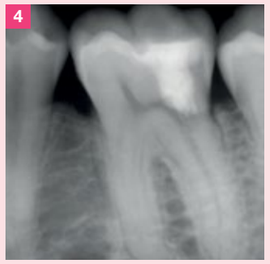
Follow-up after 3 months is required to check the pulp vitality of the tooth. If the result is satisfactory, a routine check-up is recommended after one year to evaluate treatment efficacy.

CLINICAL CASES

Case of Dr. Ninon Lebrat

1. External resorption

A 35-year-old patient, healthy, consultation for a simple check-up. On the panoramic X-ray, the dentist found external resorption on 19(1) and decided to refer the patient to Dr. Lebrat, a specialist endodontist. Dr. Lebrat treated 19: local anesthesia, prepared operating field(2), then removed the infiltrated enamel and granular tissue which had penetrated the resorption. Cleaning of dentin up to contact with pulp. Pulp hemostasis. Pulp capping done with MTA BIOREP (mixed via stirrer) placed in direct contact with the pulp infiltration. The resorption is filled with GIC*. The patient was contacted the day after the procedure and showed no symptoms. He will be seen again after 3 and 6 months to check the pulp vitality of 19.



2. Pulp capping of 18

Another use of MTA BIOREP on a healthy 16-year-old whose routine check-up found a deep caries in 18. Dr. Lebrat performed a direct pulp capping with MTA BIOREP, filled with GIC*. Check-ups will be performed at 3 months, 6 months and 1 year to check the pulp vitality of 18.

*GIC: Glass Ionomer Cement

OBTURYS

Permanent root canal obturation cement

INDICATIONS

Permanent root canal obturation cement, to be used in combination with gutta-percha cones.

ADVANTAGES

- **Easy placement inside the canal**
- For obturation of all root canals, including accessory root canals
- Water resistant
- Prevents bacterial proliferation
- **Radiopaque**
- Does not cause tooth discoloration
- **Easy to remove** if required

Two available pack types:
- Automix
- Manual (handmix)

Impossible to mix up the components!

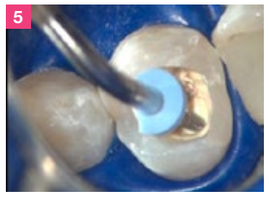
PROTOCOL

Initial X-ray

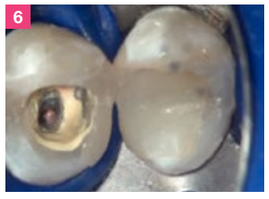
Cover the apical third of the gutta-percha cone using OBTURYS

Cover the inside of the canals with OBTURYS using gutta-percha. Make vertical up and down movements

Using a probe, section the external part of the canal with the gutta-percha



Warm vertical hot condensation of gutta-percha



Obturation of apical third

Obturation of coronary two-thirds by injection of hot gutta-percha

Final X-ray

Product references

OBTURYS Handmix OBHM1-5

10 g syringe + 1 manual adapter + 10 mixing spatulas + 1 mixing block

OBTURYS Automix OBAX1-5

10 g syringe + 10 mixing tips + 10 intraoral tips + 1 mixing block

MTA BIOSEAL

Bioceramic permanent root canal obturation cement

INDICATIONS

Endodontic root canal cement based on mineral trioxide aggregate (MTA). Allows for complete obturation of all root canals, including accessory and lateral root canals.

ADVANTAGES

- Innovative MTA-based formula which induces **remineralization of hard tissues**, **long-lasting bacteriostatic action** and **easy repeat treatment**
- **No resorption over time**
- Easy application thanks to thin-tip syringe packaging
- Homogeneous penetration of MTA into tubules
- **No tooth discoloration** thanks to the calcium tungstate based-formulation

Bioactive[1]

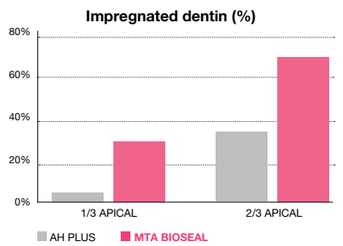


Figure 1: Percentage of dentin impregnated by MTA BIOSEAL vs AH PLUS

Bacteriostatic[2]

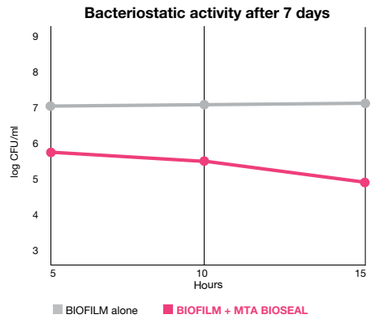


Figure 2: Bacteriological activity after 5 hours, 10 hours and 15 hours, 7 days after use of MTA BIOSEAL on the biofilm vs control

Remineralization[3]

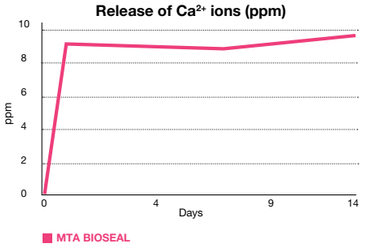


Figure 3: Release of Ca^{2+} ions after use of MTA BIOSEAL

Sources:
1 - Influence of the calcium hydroxide intracanal dressing on dentinal tubule penetration of two root canal sealers – Cruz et al. – European Endodontic Journal – 2017
2 - Antibiofilm activity, pH and solubility of endodontic sealers – Faria-Jùnior et al. – International Endodontic Journal – 2013
3 - Internal documentation – ITENA CLINICAL

Product reference

MTA BIOSEAL Kit ..... **MTA-BSEAL**

4 g Syringe of MTA cement + 10 mixing tips + 1 mixing block

RADICULAR ANCHORAGE

DENTOCLIC
DENTOCORE BODY
DENTOCORE
RECONSTRUCTION KIT

DENTOCLIC

MADE IN FRANCE

Stainless steel and calcinable posts

The head of a DENTOCLIC post forms a **double clip** in the impression material, locking the post in place and also allowing for repositioning if required.
The calcinable post has a slightly smaller diameter than the stainless steel post to compensate for the volumetric variation of materials used in the laboratory.

CYLINDRICAL-CONICAL STAINLESS STEEL AND CALCINABLE POSTS

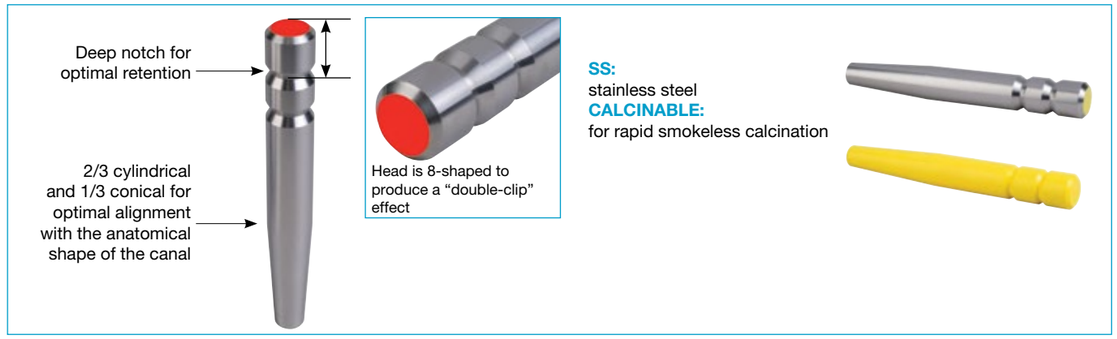
Product references

Refill with **20 SS cylindrical-conical posts**			
Length: 9.6 mm	ø 1.2 mm	○	DIA20-095
Length: 11.5 mm	ø 1.2 mm	○ L	DIAL20-114
Length: 9.6 mm	ø 1.3 mm	●	DIJ20-095
Length: 11.5 mm	ø 1.3 mm	● L	DIJL20-114
Length: 11.6 mm	ø 1.4 mm	●	DIR20-115
Length: 13.5 mm	ø 1.4 mm	● L	DIRL20-134
Length: 13.6 mm	ø 1.5 mm	●	DIB20-135
Length: 15.6 mm	ø 1.6 mm	●	DIV20-155
Length: 17.6 mm	ø 1.7 mm	●	DIN20-175

Refill with **40 calcinable cylindrical-conical posts**			
Length: 9.5 mm	ø 1.15 mm	○	DCAA40-095
Length: 11.4 mm	ø 1.15 mm	○ L	DCAAL40-114
Length: 9.5 mm	ø 1.25 mm	●	DCAJ40-095
Length: 11.4 mm	ø 1.25 mm	● L	DCAJL40-114
Length: 11.5 mm	ø 1.35 mm	●	DCAR40-115
Length: 13.4 mm	ø 1.35 mm	● L	DCARL40-134
Length: 13.5 mm	ø 1.45 mm	●	DCAB40-135
Length: 15.5 mm	ø 1.55 mm	●	DCAV40-155
Length: 17.5 mm	ø 1.65 mm	●	DCAV40-175

L = long size

Refill with **100 calcinable cylindrical-conical posts**			
Length: 9.5 mm	ø 1.25 mm	●	DCAJ100095
Length: 11.5 mm	ø 1.35 mm	●	DCAR100115
Length: 13.5 mm	ø 1.45 mm	●	DCAB100135
Length: 15.5 mm	ø 1.55 mm	●	DCAV100155
Length: 17.5 mm	ø 1.65 mm	●	DCAN100175



STAINLESS STEEL AND CALCINABLE CONICAL POSTS

Product references

Refill with **20 SS conical posts**			
Length: 9.25 mm	ø 1.52 mm	●	CIJ20-09
Length: 11.25 mm	ø 1.72 mm	●	CIO20-11
Length: 12.25 mm	ø 1.8 mm	●	CIV20-12
Length: 13.2 mm	ø 1.82 mm	●	CIR20-13
Length: 14.25 mm	ø 2.02 mm	●	CIB20-14
Length: 16.25 mm	ø 2.22 mm	●	CIV20-16

Refill with **40 calcinable conical posts**			
Length: 9 mm	ø 1.5 mm	●	CCAJ40-09
Length: 11 mm	ø 1.7 mm	●	CCAO40-11
Length: 12 mm	ø 1.78 mm	●	CCAV40-12
Length: 13 mm	ø 1.8 mm	●	CCAR40-13
Length: 14 mm	ø 2 mm	●	CCAB40-14
Length: 16 mm	ø 2.2 mm	●	CCAV40-16

Refill with **100 calcinable conical posts**			
Length: 9 mm	ø 1.5 mm	●	CCAJ100-09
Length: 11 mm	ø 1.7 mm	●	CCAO100-11
Length: 12 mm	ø 1.78 mm	●	CCAV100-12
Length: 13 mm	ø 1.8 mm	●	CCAR100-13
Length: 14 mm	ø 2 mm	●	CCAB100-14
Length: 16 mm	ø 2.2 mm	●	CCAV100-16

OUR KITS

PREMIUM Kit Cylindrical-conical posts .. KPREMIUM

- ○ 10 stainless steel + 10 calcinable
- ● 20 stainless steel + 20 calcinable
- ● 20 long stainless steel + 20 long calcinable
- ● 20 stainless steel + 20 calcinable
- ● 15 long stainless steel + 15 long calcinable
- ● 15 stainless steel + 15 calcinable
- - 1 pilot drill ø 0.95 mm
- - 6 cylindrical-conical drills ○ ● ● ● ● ●

EXCELLENCE Kit Cylindrical-conical posts ..... KEXCEL

- ○ 10 stainless steel + 10 calcinable
- ● 40 stainless steel + 40 calcinable
- ● 40 stainless steel + 40 calcinable
- ● 25 stainless steel + 25 calcinable
- ● 8 stainless steel + 8 calcinable
- ● 2 stainless steel + 2 calcinable
- - 1 pilot drill ø 0.95 mm
- - 6 cylindrical-conical drills ○ ● ● ● ● ●

CONICAL Kit Conical posts KC-250

- ● 40 stainless steel + 40 calcinable
- ● 40 stainless steel + 40 calcinable
- ● 25 stainless steel + 25 calcinable
- ● 10 stainless steel + 10 calcinable
- ● 8 stainless steel + 8 calcinable
- ● 2 stainless steel + 2 calcinable
- - 1 pilot drill ø 0.90 mm
- - 2 #1 conical drills ○ ○
- + 2 #2 conical drills ● ●

PERFORMANCE Kit Cylindrical-conical posts and Performance Drills KPERF-250

- ○ 10 stainless steel + 10 calcinable
- ● 40 stainless steel + 40 calcinable
- ● 40 stainless steel + 40 calcinable
- ● 25 stainless steel + 25 calcinable
- ● 8 stainless steel + 8 calcinable
- ● 2 stainless steel + 2 calcinable
- - 1 pilot drill ø 0.75mm
- - 6 Performance drills ○ ● ● ● ● ●

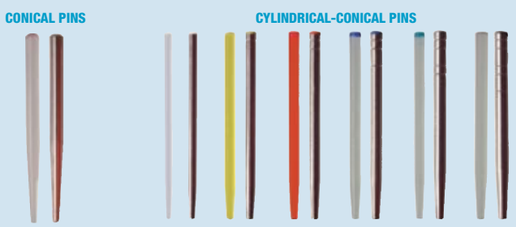
PINS

INDICATIONS

Completion of inlay cores on multiple anchorages with complex axes

ADVANTAGES

- Conical or cylindrical-conical to lock the inlay core to the residual tooth
- Allows for management of problematic axes



Product references

Refills with **10 SS cylindrical-conical pins**			
Length: 22 mm	ø 1.2 mm	○	DCLAIA-10
Length: 22 mm	ø 1.3 mm	●	DCLAIJ-10
Length: 22 mm	ø 1.4 mm	●	DCLAIR-10
Length: 22 mm	ø 1.5 mm	●	DCLAIB-10
Length: 22 mm	ø 1.6 mm	●	DCLAIV-10
Length: 22 mm	ø 1.7 mm	●	DCLAIN-10

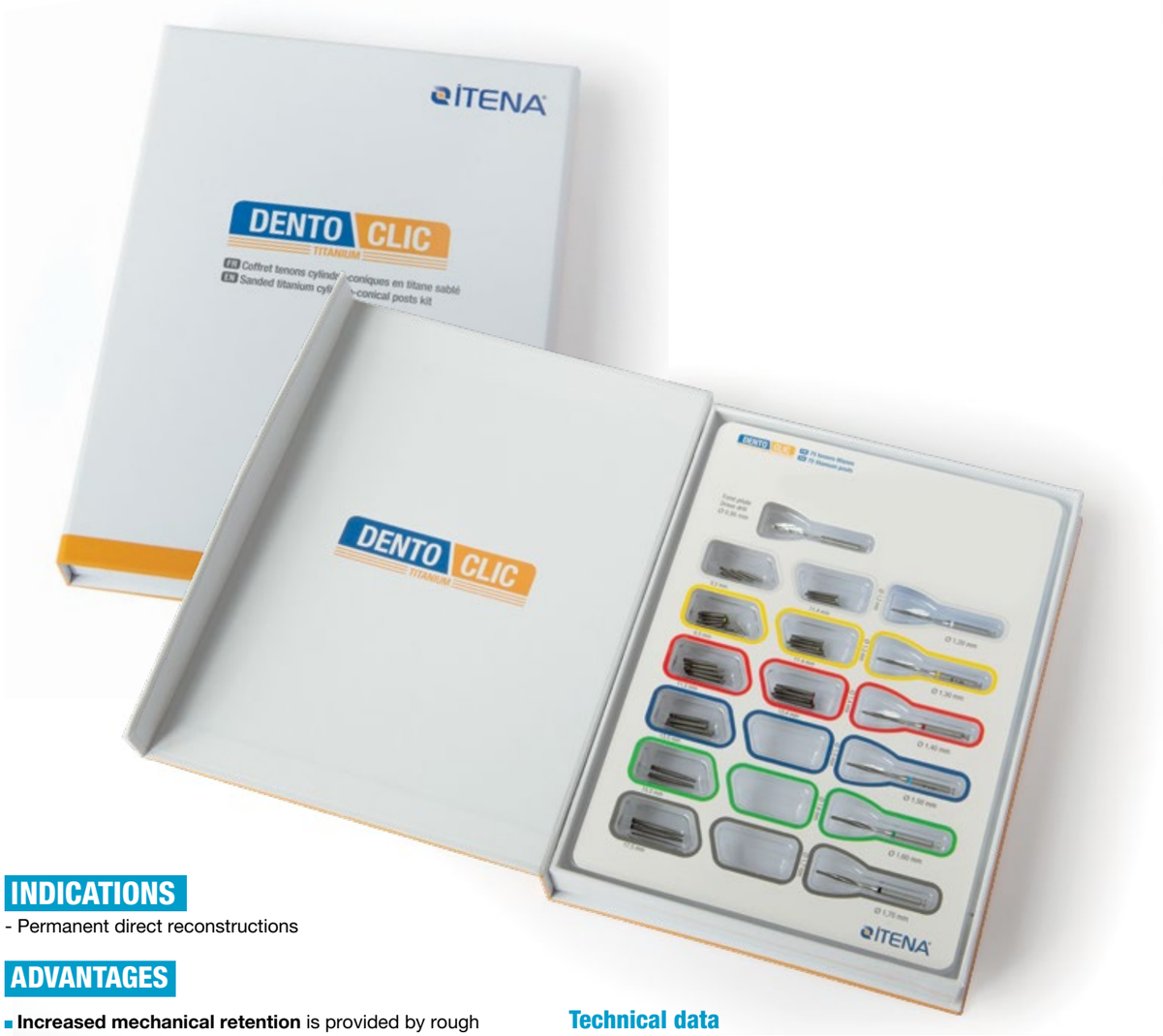
Refills with **20 cylindrical-conical calcinable pins**			
Length: 22 mm	ø 1.15 mm	○	DCLACA-20
Length: 22 mm	ø 1.25 mm	●	DCLACJ-20
Length: 22 mm	ø 1.35 mm	●	DCLACR-20
Length: 22 mm	ø 1.45 mm	●	DCLACB-20
Length: 22 mm	ø 1.55 mm	●	DCLACV-20
Length: 22 mm	ø 1.65 mm	●	DCLACN-20

Conical pin refills	
10 SS adjustable pins length 23.25 mm, ø 1.8 mm	CCLAI10
20 calcinable adjustable pins length 23 mm, ø 1.75 mm	CCLACA20

DENTOCLIC

MADE IN FRANCE

Sandblasted titanium posts



INDICATIONS

- Permanent direct reconstructions

ADVANTAGES

- **Increased mechanical retention** is provided by rough patches created by sandblasting the titanium
- **Biocompatible material**
- Cylindrical-conical posts color coded by diameter
- White, yellow and red diameters: 2 different lengths
- Cylindrical-conical drills from the DENTOCLIC system

Technical data

Grade 5 titanium meets ISO5832-3 and ASTM F136 standards (biocompatibility standards for surgical implant applications)
Total roughness (Tr): 7 - 10 micrometers

Product references

TITANIUM Kit Sandblasted titanium posts	KTI-75
○ 6 posts + 6 long posts	
● 15 posts + 10 long posts	
● 15 posts + 10 long posts	
● 7 posts	
● 3 posts	
● 3 posts	
- 1 pilot drill ø 0.95 mm	
- 6 cylindrical-conical drills ○ ● ● ● ● ●	

Refills with 20 sandblasted titanium posts		
Length: 9.6 mm	ø 1.2 mm ○	TIA20-0
Length: 11.5 mm	ø 1.2 mm ○ L	TIAL20-00
Length: 9.6 mm	ø 1.3 mm ●	TIJ20-1
Length: 11.5 mm	ø 1.3 mm ● L	TIJL20-01
Length: 11.6 mm	ø 1.4 mm ●	TIR20-2
Length: 13.5 mm	ø 1.4 mm ● L	TIRL20-02
Length: 13.6 mm	ø 1.5 mm ●	TIB20-3
Length: 15.6 mm	ø 1.6 mm ●	TIV20-4
Length: 17.6 mm	ø 1.7 mm ●	TIN20-5

L = long size

I CHOOSE ITENA
#Anchorage

DENTO CLIC

Post and Drill Range

CLIC'ORICO!

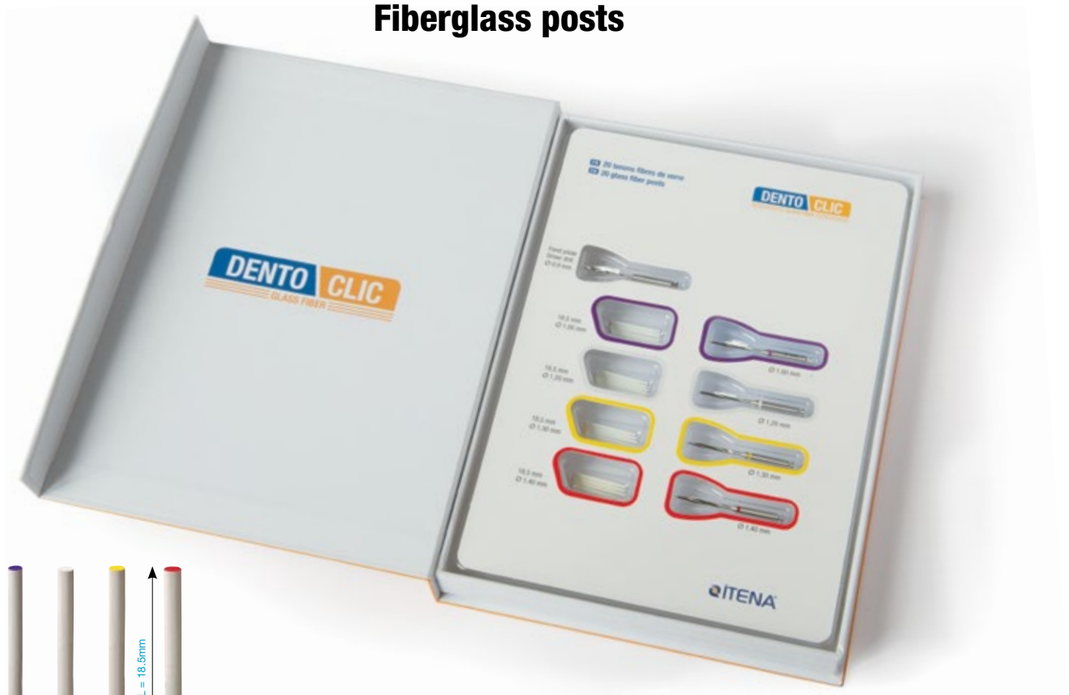
You have so many reasons to be proud of your restorations

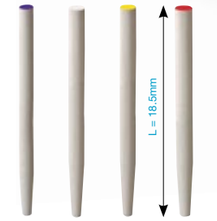
Made in France quality: unsurpassed for 20 years

- Market leader in stainless steel posts for over 15 years
- **100% French production**
- **Exclusive double clip system** for easy locking and repositioning if required
- A complete range for all your restoration work:
  - conical or cylindrical-conical, stainless steel or calcinable, fiberglass or titanium posts
  - conical or cylindrical-conical pins
  - straight-blade or spiral-blade drills.

DENTOCLIC

Fiberglass posts





INDICATIONS

- Prosthetic reconstruction with highly aesthetic results
- Reconstruction preserving the maximum possible amount of dentin
- Direct corono-radicular reconstruction with fiberglass

ADVANTAGES

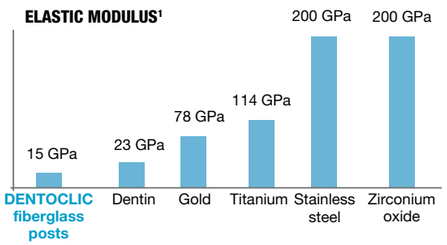
- 80% fiberglass and 20% resin composition
- Mechanical and chemical retention due to the bond between the reconstruction composite and fiberglass post
- Similar elastic modulus to dentin
- Favorable stress/strain ratio for the tooth due to even distribution of mechanical stresses
- **Aesthetic results**
- **Radiopaque**
- **Biocompatible**
- No risk of corrosion, or discoloration of tissues
- Can be used with drills from the DENTOCLIC range

HINTS AND TIPS

To improve chemical bonding at the fiberglass/adhesive interface, apply silane to the surface of the post and dry carefully before applying adhesive.

How to remove a fiberglass post

1. *Remove the composite to separate the post*
2. *Make a starter hole in the fiberglass post to enable easier access*
3. *Using either a sonic or ultrasonic diamond-coated insert without water or a specific drill (Gates type), delaminate the fiber to find the canal under the reconstruction*



Source: 1. Itena Clinical internal report

Compared to other systems such as inlay cores, the ease of repeat intervention with this type of restoration provides significant clinical value.

Product references

Kit with 20 fiberglass posts

Ivory (6 violet, 6 white, 4 yellow and 4 red)
+ 1 pilot drill, 4 cylindrical-conical drills KFVO20

Translucent (6 violet, 6 white, 4 yellow and 4 red)
+ 1 pilot drill, 4 cylindrical-conical drills KFVT20

Refills with 5 fiberglass posts

	Translucent	Ivory
ø 1 mm ●	FVTV5-1	FVOV5-1
ø 1.2 mm ○	FVTA5-1.2	FVOA5-1.2
ø 1.3 mm ●	FVTJ5-1.3	FVOJ5-1.3
ø 1.4 mm ●	FVTR5-1.4	FVOR5-1.4

DRILLS

CYLINDRICAL-CONICAL DRILLS

for reaming the canal to the dimensions of the cylindrical-conical post. Highly safe moderated reaming

Used with the following posts:
- ***stainless steel and calcinable***
- ***fiberglass***
- ***titanium***

Product references

Box of 4 cylindrical-conical drills

ø 1.0 mm ●	DFV4-010
ø 1.2 mm ○	DFA4-012
ø 1.3 mm ●	DFJ4-095
ø 1.4 mm ●	DFR4-115
ø 1.5 mm ●	DFB4-135
ø 1.6 mm ●	DFV4-155
ø 1.7 mm ●	DFN4-175

PERFORMANCE DRILLS

have greater cutting capacity due to the straightness of the blades, their cutting edges, and the drill bit with optimized grinding

Used with the following cylindrical-conical posts:
- ***stainless steel and calcinable***
- ***fiberglass***
- ***titanium***

Box of 3 performance drills

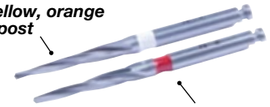
ø 1.2 mm ○	FPFA-1.2
ø 1.3 mm ●	FPFJ-1.3
ø 1.4 mm ●	FPFR-1.4
ø 1.5 mm ●	FPFB-1.5
ø 1.6 mm ●	FPFV-1.6
ø 1.7 mm ●	FPFN-1.7

CONICAL DRILLS

for reaming the canal to the dimensions of the conical post

Used with the yellow, orange and red conical post

Used with the green, blue and violet conical post



Box of 4 conical drills

#1	○	CF4-01
#2	●	CF4-02
Mix 2 #1 + 2 #2		CF4-MIX

PILOT DRILLS

for finding the canal axis in the endodontic obturation

Box of 4 pilot drills

ø 0.75 - 1 groove — FP-075
ø 0.90 - 2 grooves — FP-090
ø 0.95 - 3 grooves — FP-095
ø 1.05 - 4 grooves — FP-105
ø assorted — FPASSORT

GATE DRILLS used for enlargement of the canal opening

Box of 6 Gate drills	28 mm
ø 0.50 - 1 groove	FG1-28
ø 0.70 - 2 grooves	FG2-28
ø 0.90 - 3 grooves	FG3-28
ø 1.10 - 4 grooves	FG4-28
ø 1.30 - 5 grooves	FG5-28
ø 1.50 - 6 grooves	FG6-28
ø assorted	FGASSORT-28

Box of 6 Gate drills	32 mm
ø 0.50 - 1 groove	FG1-32
ø 0.70 - 2 grooves	FG2-32
ø 0.90 - 3 grooves	FG3-32
ø 1.10 - 4 grooves	FG4-32
ø 1.30 - 5 grooves	FG5-32
ø 1.50 - 6 grooves	FG6-32
ø assorted	FGASSORT-32

LARGO / PEESO DRILLS used for widening of canal walls

Box of 6 Largo drills	28 mm
ø 0.70 - 1 groove	FL1-28
ø 0.90 - 2 grooves	FL2-28
ø 1.10 - 3 grooves	FL3-28
ø 1.30 - 4 grooves	FL4-28
ø 1.50 - 5 grooves	FL5-28
ø 1.70 - 6 grooves	FL6-28
ø assorted	FLASSORT-28

Box of 6 Largo drills	32 mm
ø 0.70 - 1 groove	FL1-32
ø 0.90 - 2 grooves	FL2-32
ø 1.10 - 3 grooves	FL3-32
ø 1.30 - 4 grooves	FL4-32
ø 1.50 - 5 grooves	FL5-32
ø 1.70 - 6 grooves	FL6-32
ø assorted	FLASSORT-32

DENTOCORE BODY

Core build-up and post cementation composite material

Automix syringe

INDICATIONS

- Core build-up
- Cementing of posts

ADVANTAGES

- **Dual curing: self and light**
  - Gel phase for easy cleaning of excess material
- **Uses hyperbranched polymer technology**
- **Excellent radiopacity**
- **Excellent compressive strength**
- Better mechanical properties than conventional Bis-GMA resins
- Durable restorations
- **Low rates of retraction**
- Better edge adaptation

Firmer consistency for easier implementation, without consolidation

Technical data

Compressive strength	250 MPa
Rate of retraction	1.2%
Flexural strength	200 MPa
Tensile strength (diametral)	40 MPa
Solubility	2 µg/mm3
Work time	1.5 to 3.5 min
Auto setting time	2.5 to 4.5 min
Radiopacity	400% of Al

Product references

1 DENTOCORE A3 Body Cartridge DCBODY-50

1x 50 g cartridge + 25 mixing tips
+ 25 intraoral tips

2 DENTOCORE A3 Body Automix DABODY1-10

1x 9 g Automix syringe + 10 mixing tips
+ 10 thin intraoral tips + 10 extra-thin intraoral tips

DENTOCORE A3 Body Automix - Value Pack..... DABODY3-VP

3x 9 g Automix syringes + 30 mixing tips + 30 thin intraoral tips
+ 30 extra-thin intraoral tips

50 g 1:1 mixing gun for DentoCore Cartridge..... DCP

DENTOCORE

Excellent viscosity
(half-liquid/half-dense) for
optimal penetration of crevices

Product references

3 DENTOCORE White Cartridge..... DCB-50

1x 50 g cartridge + 25 mixing tips
+ 25 intraoral tips

4 DENTOCORE A3 Automix DCSAK1

1x 9 g Automix syringe + 10 mixing tips
+ 10 thin intraoral tips + 10 extra-thin intraoral tips

DENTOCORE A3 Cartridge..... DDCA3-50

1x 50 g cartridge + 25 mixing tips
+ 25 intraoral tips

PROTOCOL

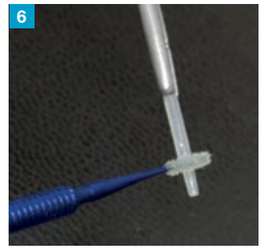
1 Select the fiberglass posts and drill

2 Remove obturation from the site with a Gates or Largo drill to the desired working depth

3 Prepare the site with the calibrated cylindrical-conical drill

4 Test fiberglass posts

5 Section the post with a diamond disk held perpendicular to the post or with cutting pliers. Keep in alcohol until bonding step



6 Apply silane then adhesive to the fiberglass post and surfaces following the QUICK BOND adhesive protocol

7 Cover the post with reconstruction composite (DENTOCORE or DENTOCORE Body) and place in the canal. Inject the same composite into a matrix to create the core build-up

8 Reconstruction shaping

CORONO-RADICULAR RECONSTRUCTION KIT

Direct reconstruction with fiber post

ADVANTAGES

- All materials and accessories for fiber post reconstruction together in one kit
- Save 35% compared to buying products separately
- Be assured of a successful corono-radicular reconstruction

Illustrated protocol

KIT WITH DENTOCLIC
translucent fiberglass posts
20 cylindrical-conical posts
(6 violet Ø 1 mm,
6 white Ø 1.2 mm,
4 yellow Ø 1.3 mm,
4 red Ø 1.4 mm)
+ 4 corresponding drills
DENTOCLIC
+ 1 pilot drill

DENTOCORE BODY
reconstruction composite
1x 9 g syringe
shade A3
+ 10 mixing tips
+ 5 thin intraoral tips
+ 5 extra-thin intraoral tips

DENTOETCH
etching gel
4x 1.5 g syringes
+ 6 tips

SILAN-IT silane
1 bottle

Adhesive
1 bottle of **QUICK BOND A**
+ 1 bottle of **QUICK BOND B**
+ 1 **BOND ACTIVATOR**
+ 70 micro-applicators
+ mixing jar

Product references

Reconstruction kit ..... MARED

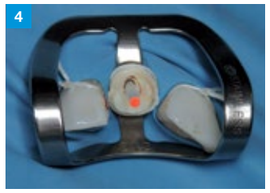
1 DENTOCLIC kit – Translucent fiberglass
+ 1 QUICK BOND A + 1 QUICK BOND B
+ 1 BOND ACTIVATOR
+ 1 syringe of DENTOCORE BODY
+ 4 syringes of DENTOETCH
+ 1 bottle of SILAN-IT
+ 1 box of micro-applicators
+ 1 mixing jar

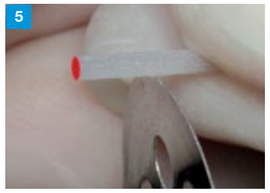
PROTOCOL

1 Select fiberglass posts and corresponding drill

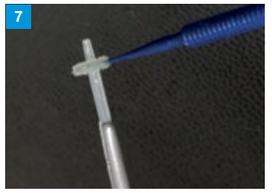
2 Remove obturation from the site with a Gates or Largo drill to the desired working depth

3 Prepare the site with the calibrated cylindrical-conical drill


4 Test the fiberglass post


5 Section the post with a diamond disk held perpendicular to the post or with cutting pliers. Keep in alcohol until bonding step

6 Etch the canal and the crown portion for 10 seconds, rinse for 15 seconds and dry moderately


7 Apply silane to the fiberglass post and dry

8 Apply QUICK BOND Prime A to tooth walls for 15 seconds + dry gradually

9 Mix equal amounts of QUICK BOND B + BOND ACTIVATOR

10 Apply the mixture to the fiberglass post and dry carefully

11 Apply the mixture for 20 seconds, then dry for 5 seconds Apply a second layer for 5 seconds, then dry for 5 seconds

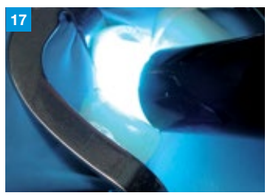
12 Coat the post with DENTOCORE BODY, then inject DENTOCORE BODY into the canal

13 Place the post in the canal

14 Select the matrix. Adjust the height and edges then pierce the matrix

15 Inject DENTOCORE BODY into the matrix

16 Put the matrix in position


17 Light curing for 5 seconds and clean away excess, then light curing a second time for 20 seconds

18 Place the matrix and shape the reconstruction

19 Postoperative view

CAD / CAM

NUMERYS GF
NUMERYS HC

NUMERYS HC

Used to make crowns

NUMERYS GF

Used to make inlay cores

NUMERYS GF

Fiberglass blocks and disks

1 DISK = up to 45 inlay cores
1 BLOCK = 1 inlay core

Ideal disk format for laboratories

INDICATIONS

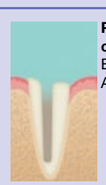
- CAD / CAM single rooted fiberglass inlay cores.
  Wet or dry machining on all universal machines
  Use of diamond or composite disk cutter and metal inlay core program or equivalent

ADVANTAGES

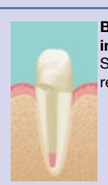
- Composite material consisting of:
  - 80% unidirectional radiopaque fibers
  - 20% epoxy resin
- **Metal-free in-mouth reconstructions**
- **Aesthetics:** metal-free prostheses that don't require opacification of the structure
- **Radiopaque**
- Better mechanical resistance than fiberglass reconstructions (posts + core build-up)
- Retention: anatomical shape provides better adhesion between canal, inlay core and crown
- **Safety:** elastic modulus similar to that of dentin, minimizing fracture risk
- **Simple technique**
- Fiber inlay core can be reworked in-mouth if required
- Simple preparation and bonding protocol

SIMPLIFIED BONDING PROTOCOL

Preparation of the inlay core
Machining + Silane + Adhesive

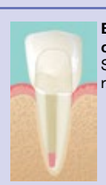


Preparation of the canal
Etching + Adhesive



Bonding of the inlay core
Self-adhesive resin cement

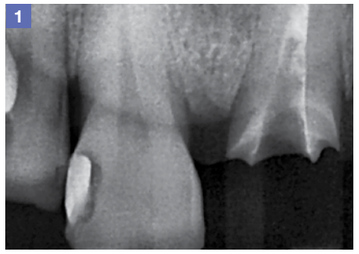
Preparation of the crown
Machining + primer



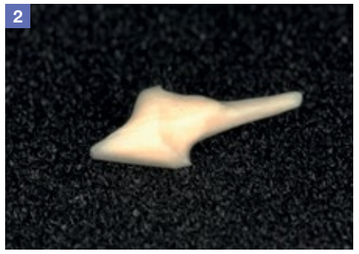
Bonding of the crown
Self-adhesive resin cement

PROTOCOL

Case of Dr. Gérard Duminil

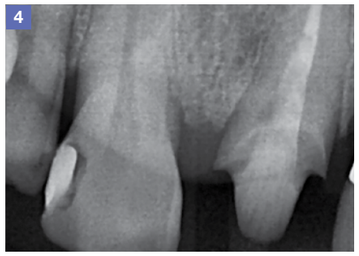


1 X-ray of tooth 9 after placement of failing crown



2 Item after machining

3 Try-out on the model

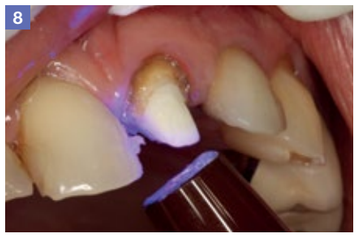


4 Adaptation checked via X-ray

5 Etching of canal with phosphoric acid

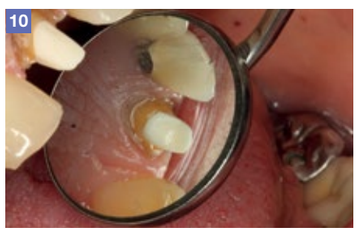
6 Item is silanized before placing adhesive

7 In the canal, apply:
1. The adhesive, then dry
2. The activator, then dry
3. The composite resin cement (TOTALC-RAM)



8 Immediately after insertion, perform an initial rapid light curing to remove the excess resin cement, then perform a second, longer curing to ensure that the material has set properly

9 Appearance of inlay core before crown impression



10 Lingual view of the adaptation

11 Final appearance after placement of usual tooth

Technical data

Flexural strength	990 MPa
Elastic modulus	23.8 GPa
Average fiber diameter	20 µm
Average number of fibers per block	700,000 fibers
Average number of fibers per disk	22,800,000 fibers

Product references

5 NUMERYS GF blocks ..... NYSGF-BCS
(H 18 mm, L 15 mm, W 16 mm)

1 NUMERYS GF disk ..... NYSGF-DSK
(Ø 98.5 mm - Height 20 mm)

NUMERYS HC

Resin/ceramic hybrid blocks and disks

Ideal disk format for laboratories

INDICATIONS

- Final restorations: inlays, onlays, crowns, veneers
- Chairside or laboratory use

Technical data

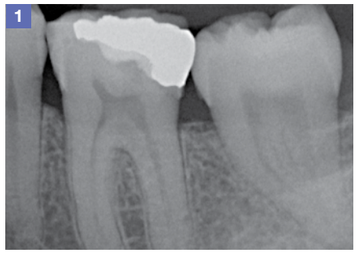
Compressive strength	448 MPa (± -38)
Tear resistance	
Diameter 10 mm	59 MPa (±-4)
Diameter 14 mm	51 MPa (±-4)
Flexural strength	
Three point flexural test	210 MPa (±-11)
Biaxial flexural strength	173 MPa (± -6)
Vickers hardness (VHN, kg/mm2)	85 MPa (±-5)

ADVANTAGES

- **Ideal for any extremely thin surfaces requiring machining**
- **75% ceramic, 25% resin.** Material is both flexible and resistant
- **A composition much lighter than traditional ceramics**
- **Easy machining and polishing** in just a few minutes
- **No curing** (ideal for chairside use)
- Block adapts to any universal machine
- Aesthetic results

PROTOCOL

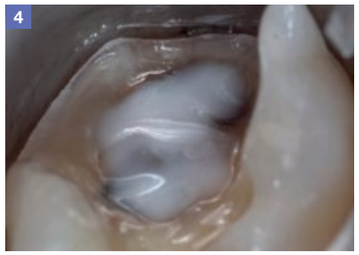
Case of Dr. Marco Morello



1 Preoperative X-ray on 19

2 Initial situation prior to treatment

3 Amalgam placed under nerve block anesthesia and built up to edge of the subgingival part using REFLECTYS FLOW A3

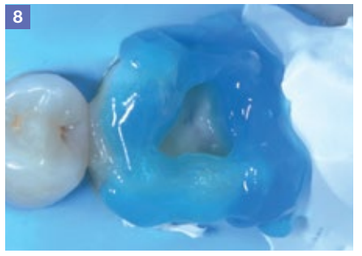


4 Base of cavity protected with MTA BIOREP

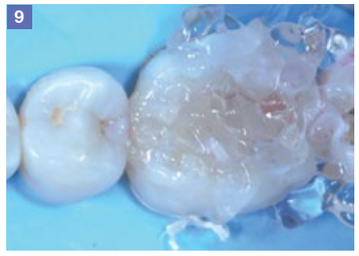
5 A layer of REFLECTYS FLOW A3 is applied to eliminate undercuts, following the standard bonding protocol. Light curing for 20 seconds followed by detailed polishing of the preparation

6 Digital impression of the prepared tooth and neighboring teeth

7 Machining of the NUMERYS HC A2/12 block



8 Etching of enamel and dentin with DENTOETCH for 10 seconds, isolating the mesial surface of 18 with Teflon tape



9 Apply a layer of glycerin and light cure each face of the inlay onlay for 10 seconds

10 Inlay onlay after bonding and polishing

HINTS AND TIPS

Opt for self-adhesive composite bonding agent TOTALC-RAM for bonding NUMERYS HC restorations.
See page 33

Product references

5 NUMERYS HC Blocks

	Size 12	Size 14 L
Shade A1	NYS-12A1	NYS-14A1
Shade A2	NYS-12A2	NYS-14A2
Shade A3	NYS-12A3	NYS-14A3
Shade A3.5	NYS-12A3.5	NYS-14A3.5
Shade B3	NYS-12B3	NYS-14B3
Shade E	NYS-12E	NYS-14E

1 NUMERYS HC Disk (ø 98 mm - height 16 mm)

Shade A2	NYS-D16A2
Shade A3	NYS-D16A3
Shade A3.5	NYS-D16A35
Shade B3	NYS-D16B3
Shade E	NYS-D16E

RESTORATION

TOTALCEM
TOTALC-RAM
DENTOCEM
PROVITEMP
DENTOTEMP
REFLECTYS
REFLECTYS FLOW
POLISH HD
IPERBOND MAX
QUICK BOND
BOND ACTIVATOR
DENTOETCH
CERAM ETCH
C-RAM BOOSTER
SILAN-IT

TOTALCEM

Self-etching and self-adhesive resin cement - special metal

INDICATIONS

- **Final bonding** of crowns, bridges, inlays, onlays, posts
- **Self-adhesive** to enamel, dentin and metal

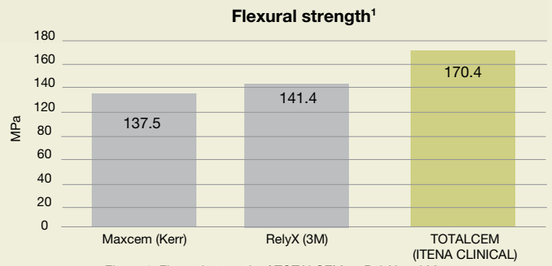


Figure 1: Flexural strength of TOTALCEM vs RelyX and Maxcem

ADVANTAGES

- **All-in-one:** Etching + Adhesive + Resin cement
- **Self-/light-curing**
- Guaranteed curing, even in areas not reached by light
- Excess material is easily removed by flash light-curing for 3 to 4 seconds to make it elastic
- **No postoperative sensitivity**
- **Insoluble in oral fluids**
- Immediate, durable seal
- Can be used on healthy teeth
- Long-term shade stability

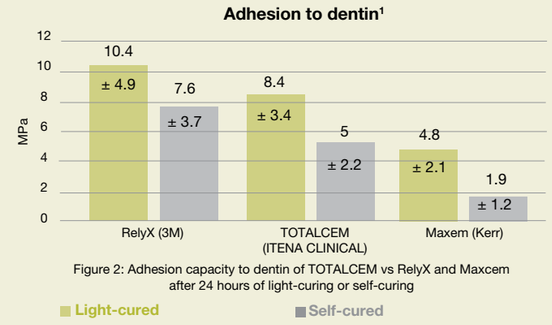


Figure 2: Adhesion capacity to dentin of TOTALCEM vs RelyX and Maxcem after 24 hours of light-curing or self-curing

Sources:
1 - Mark A. Latta, D.M.D, M.S. Associate Dean for Research. 24 hour Shear Bond Strength of Ceramic to Dentin Using Three Cernent Systems. Creightn University Medical Center. 2006

Technical data

Compressive strength:	180 MPa
Absorption coefficient:	12 µg/mm³
Solubility:	7 µg/mm³
Film thickness:	10 µm
Radiopacity, % Aluminum:	250% Al
Fluoride release (cumulative over 14 days):	589 ppm
Work time:	1.5 to 3.5 min
Setting time (oral temperature):	2.5 to 4.5 min
Compatible with all lamp types:	Yes

Product references

TOTALCEM syringe

8 g Syringe + 10 mixing tips + 10 thin intraoral tips + 10 extra-thin intraoral tips
Translucent shade ..... TTLCEM-TR
Shade A2 ..... TTLCEM-A2

TOTALCEM Value Pack

3 8 g Translucent syringes + 30 mixing tips
+ 30 thin intraoral tips + 30 extra-thin intraoral tips
Translucent shade TCEM3-VPTR
Shade A2 ..... TCEM3-VPA2

TOTAL C-RAM

Self-etching and self-adhesive resin cement - special ceramic

INDICATIONS

- **Final bonding of: crowns, bridges, inlays, onlays, veneers and posts**
- **Self-adhesive** on enamel, dentin, metal, ceramic, zirconia and porcelain

ADVANTAGES

- **Saves time** due to its self-etching and self-adhesive properties
- Integration of silane in the resin allows for **better adhesion to ceramics**
- **Dual curing** (self- and light-curing)
- **Ease of use** and placement with the Automix syringe
- Excess material easily removed
- No postoperative sensitivity
- Particularly **recommended for bonding veneers**: thin film just 10 µm thick

Choice of 3 shades to meet the requirements of all clinical cases:
Opaque dentin: similar shade to dentin with advantage of opaqueness for optimal cover
Translucent: very high translucency for bonding with no effects on the shade of the restoration
White: excellent opacity properties. Particularly appropriate for veneers. Also indicated for covering up the gray shade of a metal restoration

PROTOCOL

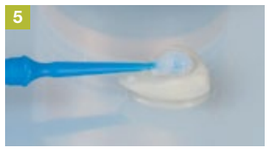
Case of Dr. Pascal Zyman

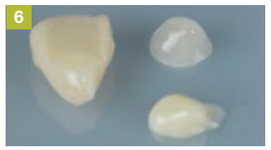
1 Initial view

2 Wax up

3 Lithium disilicate veneers

4 Application of hydrofluoric acid (CERAM-ETCH) for 20 seconds followed by rinse


5 Application of silane (SILAN-IT)


6 Application of TOTALC-RAM opaque dentin shade on cervical and middle areas and translucent shade on the incisal edge

7 Final view

Product references

TOTAL C-RAM

8 g Syringe + 10 mixing tips + 10 thin intraoral tips + 10 extra-thin intraoral tips
Translucent shade ..... TTCRAM-TR
Opaque dentin shade ..... TTCRAM-OD
White shade ..... TTCRAM-BLC

DENTOCEM

Resin cement without adhesive properties

INDICATIONS

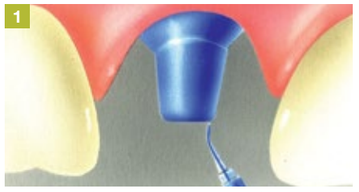
- Crowns, bridges, inlays, onlays, posts, Maryland bridges and veneers
- Resin cement for ceramometal repair work
- Multiple substrate bonding

ADVANTAGES

- **Resin-based cement**
- No expansion on setting
- Near-zero solubility in oral fluids (1 µm/mm3)
- Very thin joint (10 µm), for highly aesthetic results
- **Dual curing: self and light**
- Guaranteed curing, even in areas not reached by light
- Elastic phase for easy cleaning of excess material
- **Radiopaque**

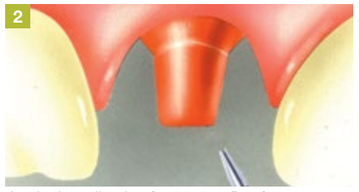
PROTOCOL

1



Etch tooth for 10 seconds, rinse for 15 seconds and dry moderately

2



Apply the adhesive for 20 sec. Dry for 5 sec. (If previously etched, reapply for 5 sec then dry for 5 sec.) Light-curing for 20 sec

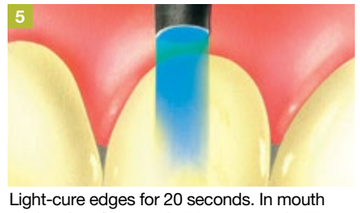
3

Apply a thin layer of resin cement to the restoration

4

Place the restoration. Flash the excess for 3 to 4 seconds and remove using a probe

5



Light-cure edges for 20 seconds. In mouth setting time from 2 min 30 sec to 4 min 30 sec

Product references

DENTOCEM..... DCA-2.5

2x 8 g syringes + 10 mixing tips + 10 extra-thin intraoral tips

I CHOOSE ITENA
#Cement

MAKE THE RIGHT CHOICE
FOR YOUR FINAL CEMENTING

SPECIAL METAL

For final bonding of your crowns, bridges, inlays, onlays and metal posts

- Shades: A2 and Translucent

SELF-ADHESIVE

SELF-ETCHING

SPECIAL CERAMIC

For final bonding of your ceramic, porcelain and zirconia crowns, bridges, inlays, onlays, veneers and posts.

- Shades: Translucent, Opaque Dentin and White

SPECIAL IMPLANTS

For long-term cementing of temporary prostheses (up to 8 months) and final cementing of implant-supported crowns and bridges

PROVITEMP

Short-term temporary cement

INDICATIONS

Temporary cement for:
- crowns
- bridges
- testing of permanent restorations, inlay, onlay, temporary retainer

ADVANTAGES

- **Eugenol-free**. No interference with final cement or resin
- **Resistant to deformation** during chewing
- Restorations are cemented and made **watertight**
- **Dentin shade** for aesthetic results
- **Contains fluorides**
- Radiopaque
- Excess is easily removed without residue
- **Easy cleaning** of temporary element after removal

PROTOCOL

Inject PROVITEMP into the temporary element. Work time 2 min.

Set in place and hold firmly in place. Initial setting time: 1 min 30 sec to 2 min.

Clean away the excess. Final setting: 3 to 4 min.

Product reference

PROVITEMP Automix

1x 6 g syringe + 10 mixing tips PTEMP1-10
2x 6 g syringes + 20 mixing tips..... PTEMP2-VP

20 mixing tips..... DTEM-20

DENTOTEMP

Long-term temporary cement and final temporary cement on the implant

Manual syringes

INDICATIONS

- **Temporary cement** on unreconstructed natural teeth (composite, inlay-core).
- **Temporary cement** for aesthetic elements such as veneers or onlays.
- **Final cement** for crowns and bridges on implants which may have restorations fitted.

HINTS AND TIPS

- *To reduce retention of DENTOTEMP, a little **Vaseline** may be added*
- *To remove temporary elements, use **Furrer forceps***
- *The DENTOTEMP is connected to the **basal surface** of the temporary resin teeth and can later be relined. As a result, it is easier to re-cement the temporary tooth by adding a bit of new DENTOTEMP than to remove it from the temporary tooth*
- *For temporary cement on a composite restored tooth, isolate the core*

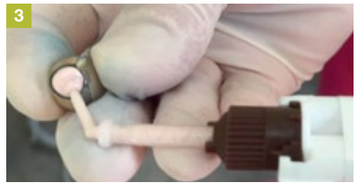
ADVANTAGES

- **Eugenol-free.** No interference with final cement or resin
- High **retention capacity** combined with ease of placement
- Leaves **perfectly healthy gums** at time of cement removal
- Attached to the basal surface of temporary resin crowns. Removal of the temporary element takes the entire cement layer with it, leaving no debris behind on the natural tooth. The prepared teeth remain perfectly clean
- **Relining and cementing of crowns in a single step**
- For use on **healthy teeth**
- **Low film thickness** (10 µm)
- Radiopaque

CLINICAL CASE

Initial view

Teflon placed prior to placement of crown to isolate the screw head



Filling in of basal surface. Work time between 45 and 60 seconds

Apply pressure to the temporary crown, holding it in place or having the patient bite gently on a cotton wad until initial setting for 2 min to 2 min 30 sec

Remove the excess with a probe

Final view

Product references

DENTOTEMP Automix intro kit DTCA1-5
1x 6 g syringe + 5 mixing tips
DENTOTEMP manual mix..... DT-2.10
2x 12 g syringes (base+catalyst) + 10 mixing spatulas + 1 mixing block
20 mixing tips..... DTEM-20

DENTOTEMP Automix..... DTCA2-20
2x 6 g syringes + 20 mixing tips
DENTOTEMP Automix Value Pack DTCA4-VP
4x 6 g syringes + 40 mixing tips

REFLECTYS

Universal composite for anterior and posterior restorations

Available in 4 g syringe or 0.25 g compule formats

Restoration kit

Lamination kit

INDICATIONS

Restorations for posterior teeth subject to significant chewing stresses as well as anterior teeth requiring highly aesthetic results.

- Class I to V
- Correcting shape and color
- Teeth fractured by trauma
- Restoration of deciduous teeth

ADVANTAGES

- **Highly realistic**: perfect imitations of the natural tooth
- Optimal resistance to abrasion, compression and flexure
- No postoperative sensitivity
- **Invisible restoration** perfect integration with the treated tooth. Imperceptible composite edges
- **Brilliant shine** after polishing
- Optimized composition: nano-reinforced microhybrid composite
- **Radiopaque**
- Material has **excellent malleability**: ideal texture, does not stick to instruments or gloves, can be shaped easily, fast and easy polishing
- **Appropriate for use in simple cases and more complex clinical cases:** lamination is possible
- **Low curing shrinkage:** impeccable integrity of restoration edges
- Light-curable
- **17 shades available**

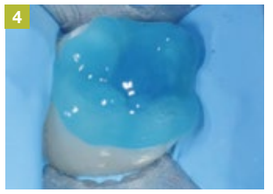
CLINICAL CASE

Case of Dr. Marco Morello

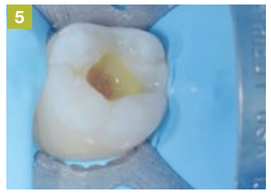
Bitewing X-ray targeting caries on 19

Initial situation prior to treatment. Occlusal caries on first left lower molar

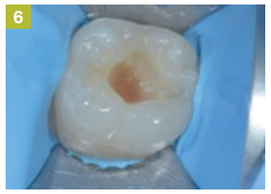
Treatment of caries



Etching of the enamel for 30 seconds and of the dentin with DENTOETCH for 15 seconds

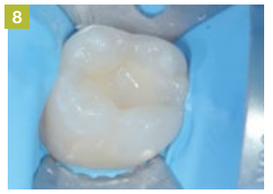


Rinsing for 15 seconds and drying of the cavity until surface appears chalky white

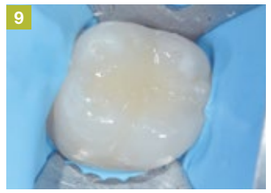


Application of IPERBOND MAX adhesive for 20 seconds. Then a gentle stream of air for 5 seconds. Repeat these steps a second time. Light-curing for 20 seconds + 20 seconds

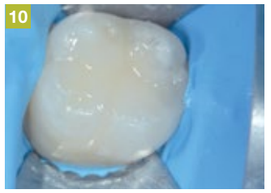
Placement of a thin layer of glass ionomer cement – sandwich technique



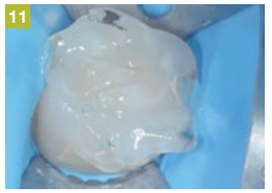
Application of a layer of REFLECTYS FLOW A3. Light-curing for 20 seconds



Two-stage application of the dentin composite REFLECTYS A2. Light-curing for 20 seconds with each application



Application of REFLECTYS E enamel composite in a thin layer. Light-curing for 20 seconds



Application of a layer of glycerin and light-curing for 20 seconds

Final situation after complete treatment and rehydration

Technical data

Depth of curing	2.95 mm
Compressive strength	310 MPa
Flexural strength	164 MPa
Film thickness	8.2 µm
Water absorption	23.1 µg/mm³
Solubility in water	39.3 µg/mm³
Rate of retraction	2.20%

Product references

REFLECTYS KITS

Restoration kit: for all your routine restorations – 4 syringes REFLECTYS (A2, A3, A3.5, B2) + 1 adhesive IPERBOND MAX KTYS-4.1B

Lamination kit: for the most delicate aesthetic cases – 7 REFLECTYS syringes (A1, A2, A3, Opaque A2, Opaque A3, Enamel, Incisal) + 1 IPERBOND MAX adhesive + 4 syringes of DENTOETCH etching gel KTYS-7.2BE

Shades	4 g Syringe + 1 spatula	20 compules of 0.25 g
Bleach	SRTYS-BLC	CPTYS-BLC
A1	SRTYS-A1	CPTYS-A1
A2	SRTYS-A2	CPTYS-A2
A3	SRTYS-A3	CPTYS-A3
A3.5	SRTYS-A3.5	CPTYS-A3.5
A4	SRTYS-A4	CPTYS-A4
B1	SRTYS-B1	CPTYS-B1
B2	SRTYS-B2	CPTYS-B2
B3	SRTYS-B3	CPTYS-B3
C2	SRTYS-C2	CPTYS-C2
C3	SRTYS-C3	CPTYS-C3
D3	SRTYS-D3	CPTYS-D3

Shades	4 g Syringe + 1 spatula	20 compules of 0.25 g
Enamel	SRTYS-E	CPTYS-E
Incisal	SRTYS-I	CPTYS-I
Pedo	SRTYS-P	CPTYS-P
Opaque A2	SRTYS-A20	CPTYS-A20
Opaque A3	SRTYS-A30	CPTYS-A30

REFLECTYS FLOW

Universal composite fluid

IDEAL FOR DIFFICULT-TO-ACCESS APPLICATIONS

INDICATIONS

- Obturation of preparations with minimal infiltration with or without carious lesions.
- Class I, III and V obturations.
- Used in sandwich technique in combination with highly viscous composite materials.
- Edge repair of standard obturations with composite or inlays.
- Used to make retainers for mobile teeth following trauma or parodontopathy.

ADVANTAGES

- **Wear resistant**
- **Highly aesthetic results**: easy polishing, durable shine, excellent shade results
- **Radiopaque**
- **Excellent thixotropy**: fluid under pressure remains in place in the cavity
- Low curing retraction
- Light-curable
- Imitates fluorescence of the natural tooth

HINTS AND TIPS

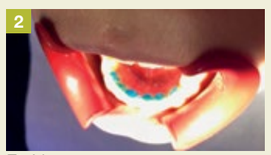
Ensure a better seal when preparing a composite!

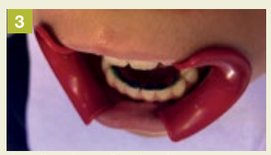
After filling undercuts with REFLECTYS FLOW, leave a layer of non light-cured product before starting to place the composite. When pressing in the composite, the product will go up the walls to ensure a better seal.

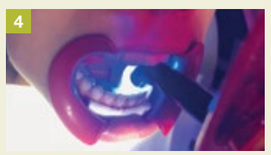
BONDING A RETAINER

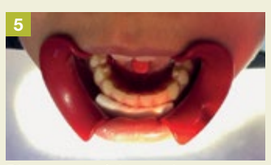
Clinical case of Dr. Dante Martin Estrada Suarez

1 Initial view

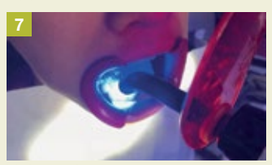

2 Etching

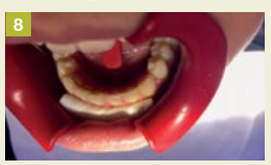

3 Application of adhesive


4 Light-curing of adhesive


5 Placement of the retainer

6 Application of REFLECTYS FLOW


7 Light-curing


8 Retainer placement

Product references

Shades	1x 2 g syringe + 10 tips ø 0.9 mm
A1	FWTYS-A1
A2	FWTYS-A2
A3	FWTYS-A3
A3.5	FWTYS-A3.5
B2	FWTYS-B2
B3	FWTYS-B3

Technical data

Layer thickness
Recommended curing time 20 seconds (LED) .....2.5 mm
Depth of curing.....254 mm
Compressive strength ..... 250 MPa
Flexural strength ..... 120 MPa
Rate of retraction 3.70%

POLISH HD

Composite polishers in a single step

Cup
Ideal for lingual and palatal surfaces in anterior restorations, posterior cusps and lines and proximal angles.

NEW SHAPE

Small brush
Specially created for polishing the occlusion.
Special shape for reaching deep channels.

Flame
Ideal for channels, raised occlusal areas and the cervical area.

Lens
Ideal for the vestibular surface of incisors, large areas of composite, incisor angles and interproximal areas.

ADVANTAGES

- **Suitable** for composite polishing
- Polishers in a single step for **rapid, effortless polishing**
- **Aesthetic results and optimal shine**
- Simple to use, no polishing paste required

PROTOCOL

1 Before

2 Polishing

3 After

Product references

Set of 12 Flame polishers PLFLAM-12
Set of 12 Cup polishers PLCUP-12
Set of 12 Lens polishers PLLENS-12
Set of 12 Small Brush polishers PLBRUSH-12

Set of 6 Assorted polishers
(x2, x2, x2) PLASSORT-6
Set of 20 Assorted polishers
(x5, x5, x5, x5) PLASSORT-20

IPERBOND MAX

Universal adhesive (8th generation)

10-MDP*-based formula

* 10-MDP: 10-Methacryloyloxydecyl Dihydrogen Phosphate

INDICATIONS

- Direct restorations using light-curing composite on natural teeth
- Indirect composite and ceramic restorations (inlays, onlays, veneers, crowns) with light-curing and self-/light-curing cement composites (although still light-cured)
- Repairs of fractured restorations

IPERBOND MAX is compatible with all standard light-curable composite materials.

ADVANTAGES

- **1 single bottle, 1 single application and only 10 seconds of curing:** fast, simple and reliable
- **Universal adhesive**: etching, primer and bonding in a single product
- Optimal viscosity and thixotropy: adhesion by a homogeneous layer, with no excess
- Material stays **stable over time** – does not need to be stored in a refrigerator
- No TEGDMA / MMA: biocompatible material
- Gentle etching **reduces the risk of hypersensitivity** (2 < pH < 2.5)

Technical data

Shear strength (ISO 29022:2013)
Surface

Dentin	26 MPa
Enamel	24 MPa
Zirconia and sandblasting product	46 MPa
Lithium disilicate + etching + silane (prepared surface)	36 MPa

PROTOCOL

Using IPERBOND MAX in etch and rinse mode (direct restoration)

Initial view

Etching of enamel with DENTOETCH. Application time: 30 seconds

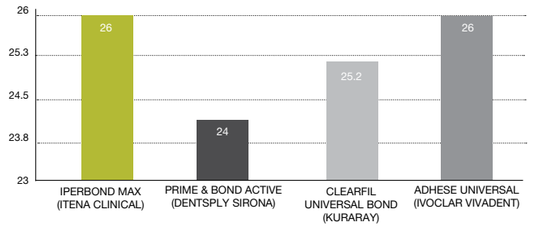
Rinsing and drying in dry air

Application of IPERBOND MAX adhesive to the entire tooth wall. Application time: 20 seconds

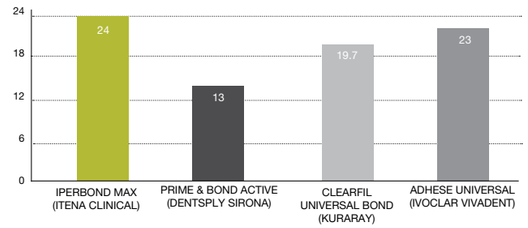
Drying of adhesive in dry air

Curing

Shear strength on dentin[1]



Shear strength on enamel[1]



1- Itena Clinical internal report

IPERBOND MAX has equivalent or better shear strength values than market-leading products.
Adhesion provided by a formulation incorporating 4-META and 10-MDP monomer acids, which act as powerful structural agents to ensure a lasting bond to both dentin and enamel.

Product reference

IPERBOND MAX 5 ml bottle	IBONDMAX5

QUICK BOND

2 step self-etching system (SE2 - 6th generation)

INDICATIONS

- **Restorations with composites** by direct technique
- For **bonding of all** obturation materials, self- and light-curing composites, compomers and cement resins
- **Posterior restorations** completed by safely etching enamel margins with DENTOETCH

ADVANTAGES

- 2 step self-etching adhesive, consisting of a self-etching primer and a light-curing adhesive
- Ensures **strong adhesion to dentin and enamel**
- Mildly acidic primer **dissolves the dentin sludge** and can therefore penetrate to the dentin tubules and the peritubular dentin
- No intermediate rinsing, avoids gingival bleeding
- Creation of a **very extensive network of microporosities** on the enamel surface, enabling better bonding
- **No postoperative sensitivity**
- Use the **BOND ACTIVATOR chemical activator** to make the bonding agent self-curing
- Ideal for procedures in areas inaccessible to light, such as the canal

Product references

QUICK BOND Kit ..... DBQAK
10 ml of Prime "A", 10 ml of Bond "B" + 1 mixing jar
+ 70 conical micro-applicators

QUICK BOND PRIME "A" DBQAP-10
10 ml bottle

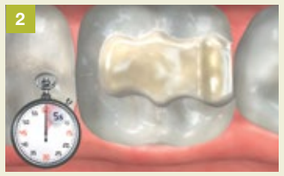
QUICK BOND BOND "B" DBQAB-10
10 ml bottle

Micro-applicators

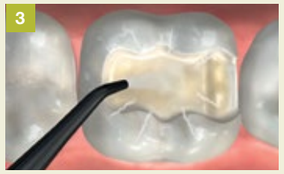
1 100 white conical micro-applicators AFB-100
2 100 green spherical micro-applicators ASV-100

PROTOCOL

Apply 3 successive layers of **QUICK BOND "PRIME"** to the dental surface



Allow to act for 15 seconds



Apply a stream of air for 10 seconds to remove all solvent residue

Apply 2 successive layers of **QUICK BOND "BOND"**

Apply a stream of air for at least 10 seconds or until no visible movement is observed on the material

Light-curing for 20 seconds

For bonding of self-curing or dual composites or for areas which are inaccessible to light, add an equal quantity of **BOND ACTIVATOR** and **QUICK BOND "B"** to a clean mixing bowl, mix for two seconds, then follow steps 4, 5 and 6

BOND ACTIVATOR

QUICK BOND chemical activator

ADVANTAGES

- Ideal for procedures in areas inaccessible to light, **such as the base of the canal**
- Makes the QUICK BOND bonding agent compatible with dual or self composites and bonding agents

Ideal for bonding NUMERYS GF inlay cores

Product reference

BOND ACTIVATOR 7 ML BOTTLE.....DBAC-7

DENTOETCH

Etching gel (phosphoric acid 37%)

INDICATIONS

Etching gel for preparation of enamel and dentin surfaces before composite bonding.

ADVANTAGES

- **Precise application**
- Blue color enables easy differentiation of product
- **Sufficient viscosity** enables product to stay in place
- Soluble in water
- **Fast, easy rinsing**
- **Economical format** with refill syringes
- **Syringe with disposable tip** to facilitate placement even on hard-to-access surfaces

PROTOCOL

Initial view | Application of DENTOETCH | Etching results

Recommended application time:
- On enamel: 30 to 60 seconds
- On dentin: 15 seconds

Rinse copiously for 30 seconds

Product references

Etching gel

4x 1.5 g syringes + 8 needle tips DE-4.12

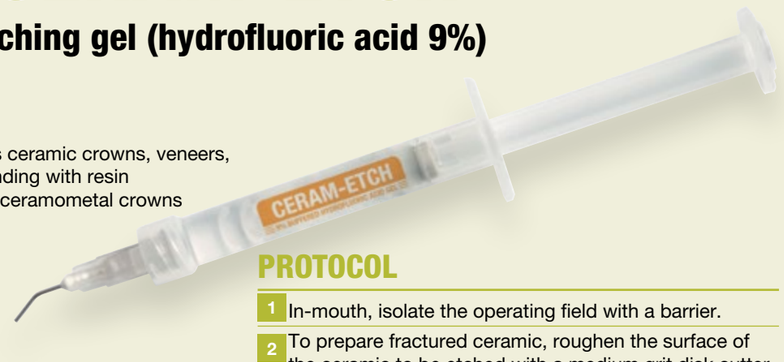
1x 90 g syringe + 5x 1.5 g empty syringes + 20 needle tips ..... DETCH-VP

DENTOETCH tips DEA-20

20 mixing tips

CERAM-ETCH

Etching gel (hydrofluoric acid 9%)



INDICATIONS

- Preparing the base surface: vitreous ceramic crowns, veneers, and inlays prior to cementing or bonding with resin
- Repairing fractured all-ceramic and ceramometal crowns

ADVANTAGES

- Stays in place
- Creates microporosites ensuring **better adhesion of the bonding resin**

Technical data

Hydrofluoric acid 9%
Water 90%
Thickening agent 1%

Product reference

2x 1.3 g syringes + 4 tips ..... CRAM-ETCH

PROTOCOL

1. In-mouth, isolate the operating field with a barrier.
2. To prepare fractured ceramic, roughen the surface of the ceramic to be etched with a medium grit disk cutter, to remove the shiny surface and create sufficient space for the composite. Tribochemical sandblasting can also be used. Rinse and dry the ceramic surface.
3. Apply CERAM-ETCH to the ceramic with a micro-applicator and leave in place for 60 seconds.
4. Rinse the ceramic copiously with water to neutralize the acid, then dry. The ceramic will have an unpolished appearance. If required, repeat the etching procedure.

C-RAM BOOSTER

Ceramic repairing agent

INDICATIONS

- Preparing ceramic crowns, veneers, and inlays and onlays prior to bonding
- Repairing fractured ceramic restorations with resins

ADVANTAGES

- **Preparation** of ceramometal or ceramoceramic crowns, veneers, inlays/onlays made of **ceramic**
- No etching or sandblasting, simplified protocol
- Improves adhesion between resins and ceramic materials such as **zirconia, porcelain, vitreous ceramic and ceramometal**
- Ideal surface coverage

PROTOCOL

1. Overall view of a multiple fracture on ceramometal bridge
2. Clean ceramic and metal surfaces with alcohol or acetone and dry thoroughly for 20 seconds
3. Open the bottle of C-RAM BOOSTER and put 1 or 2 drops in a cup, then close the bottle immediately
4. Apply C-RAM BOOSTER generously to the ceramic surfaces using a brush or micro-applicator
5. Wait for two minutes then dry thoroughly with dry air
6. **OPTIONAL** Apply IPERBOND MAX adhesive for fractures or complex occlusions
7. Reconstruct the bridge with the composite REFLECTYS
8. Final view of the reconstructed bridge

Product reference

5 ml bottle CRAMBST5

SILAN-IT

Silane

INDICATIONS

Coupling agent used to promote adhesion

ADVANTAGES

- Single component silane
- Acts on surface of minerals (glass or ceramic)
- **Increases mechanical resistance**
- **Improves adhesion and resistance to hydrolysis**

PROTOCOL

1. Etch the surface to be bonded. Rinse and dry.
2. Put a drop of SILAN-IT on a support.
3. Using a micro-applicator, apply the product to the etched dry surface. Leave the product to dry in room air. To accelerate solvent evaporation, it can be dried in the dental chair with dry air and no oil.
4. Then continue with your usual bonding procedure.

Product reference

5 ml bottle ..... SILAN-IT

YOUR BONDING GUIDE FOR EACH MATERIAL

Bonding to vitreous ceramic	Bonding to zirconia / aluminum	Bonding to metal
LOW **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Etching + Primer + Bonding Agent **C-RAM BOOSTER + DENTOCEM or TOTAL C-RAM** **PREPARATION OF TOOTH** Etching + Primer + Adhesive **QUICK BOND or IPERBOND MAX**	**LOW** **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Tribochemical sandblasting + Primer + Bonding Agent **Sandblasting agent + C-RAM BOOSTER + DENTOCEM** **PREPARATION OF TOOTH** Etching + Primer + Adhesive **QUICK BOND or IPERBOND MAX**	**LOW** **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Tribochemical sandblasting + Primer + Bonding Agent **Sandblasting agent + IPERBOND MAX + DENTOCEM** **PREPARATION OF TOOTH** Etching + Primer + Adhesive **QUICK BOND or IPERBOND MAX**
MEDIUM **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Etching + Primer + Bonding Agent **C-RAM BOOSTER + DENTOCEM OR TOTAL C-RAM** **PREPARATION OF TOOTH** Etching + Primer + Adhesive **QUICK BOND OR IPERBOND MAX**	**MEDIUM** **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Etching + Primer + Bonding Agent **C-RAM BOOSTER + DENTOCEM OR TOTAL C-RAM** **PREPARATION OF TOOTH** Etching + Primer + Adhesive **QUICK BOND OR IPERBOND MAX**	**MEDIUM** **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Primer + Bonding Agent **IPERBOND MAX + DENTOCEM OR TOTALCEM** **PREPARATION OF TOOTH** Etching + Primer + Adhesive **QUICK BOND OR IPERBOND MAX**
HIGH **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Bonding agent **TOTAL C-RAM** **PREPARATION OF TOOTH** No adhesive preparation	**HIGH** **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Bonding agent **TOTAL C-RAM** **PREPARATION OF TOOTH** No adhesive preparation	**HIGH** **MECHANICAL RETENTION** **PREPARATION OF PROSTHESIS** Bonding agent **TOTALCEM** **PREPARATION OF TOOTH** No adhesive preparation

BONDING ESSENTIALS

QUICK BOND

SAM2 adhesive

- 2 step system: 1 weakly acidic self-etching primer and 1 light-curing adhesive
- Ensures adhesion to enamel and dentin
- Consider BOND ACTIVATOR for procedures in areas which are inaccessible to light

IPERBOND MAX

Universal adhesive

- Etching, primer and bonding in a single product
- Formulated with 10-MDP and 4-META monomers for optimal adhesion to both dentin and enamel
- Free choice of protocol: ER (etch-and-rinse) or SE (self-etching system)
- Gentle etching reduces the risk of hypersensitivity (2 < pH < 2.5)
- Light-curing in only 10 seconds

TOTAL C-RAM

Self-adhesive bonding agent

- Formulated for ceramic and zirconia prostheses
- Dual curing

DENTOCEM

Bonding agent without adhesive properties

- Can be used on all substrates (metal, ceramic, zirconia) with prior preparation
- Dual curing

TOTALCEM

Self-adhesive bonding agent

- Formulated for metal prostheses
- Dual curing

C-RAM BOOSTER

Primer for ceramic and zirconia

- Integrated etching
- Considerably improves adhesion between resins and ceramic materials

IMPRESSIONS AND TEMPORARY PROSTHESES

HYDROSPEED HD
TRAXODENT
DENTOCROWN HD

HYDROSPEED HD

Addition-crosslinking silicone-based high precision impression material (VPS)

1 Set of 50 tips + clamping ring HYM-TY50
2 Set of 100 intraoral tips HY-TY100
3 Set of 50 ECO mixing tips HY-TY50

	Product	Ref.	Distribution system	Viscosity	Riser type	Max application time (23°C)	Setting time (37°C)
Light (wash material)	**HYDROSPEED**HD Light Body	HYD-BL	**Cartridge** for mixing gun	Light	Normal	02:15	02:30
	HYDROSPEEDHD Light Body Quick	HYD-BLQ	**Cartridge** for mixing gun	Light	Quick	01:15	01:45
	HYDROSPEEDHD Regular Body	HYD-BR	**Cartridge** for mixing gun	Regular	Normal	02:15	02:30
	HYDROSPEEDHD Regular Body Quick	HYD-BQR	**Cartridge** for mixing gun	Regular	Quick	01:15	01:45
Mono-phase material	**HYDROSPEED**HD Magnum Body Heavy	HYDM-BH	**Magnum** machine mixing	Heavy	Normal	02:30	02:30
	HYDROSPEEDHD Magnum Body Heavy Quick	HYDM-BHQ	**Magnum** machine mixing	Heavy	Quick	01:30	01:45
Putty (Tray Material)	**HYDROSPEED**HD Putty Soft	HYD-PS	**Pots** for manual mixing	Soft	Normal	02:00	02:30
	HYDROSPEEDHD Putty Soft Quick	HYD-PSQ	**Pots** for manual mixing	Soft	Quick	01:15	01:45
	HYDROSPEEDHD Putty Hard	HYD-PH	**Pots** for manual mixing	Hard	Normal	02:00	02:30
	HYDROSPEEDHD Putty Hard Quick	HYD-PHQ	**Pots** for manual mixing	Hard	Quick	01:15	01:45
	HYDROSPEEDHD Magnum Putty Hard	HYDM-PH	**Magnum** machine mixing	Hard	Normal	02:00	02:30
	HYDROSPEEDHD Magnum Putty Hard Quick	HYDM-PHQ	**Magnum** machine mixing	Hard	Quick	01:15	01:45

HYDROSPEED HD BITE REGISTRATION

Bite registration

ADVANTAGES

- Does not create bubbles
- Shore hardness 90 A
- **Total setting time of 1 min 40 sec**
- Thixotropic / does not run
- Both flexible and rigid

Brush tip for fitting onto mixing tip

Bite registration tips

- *Homogeneous two-component mixture*

Product references

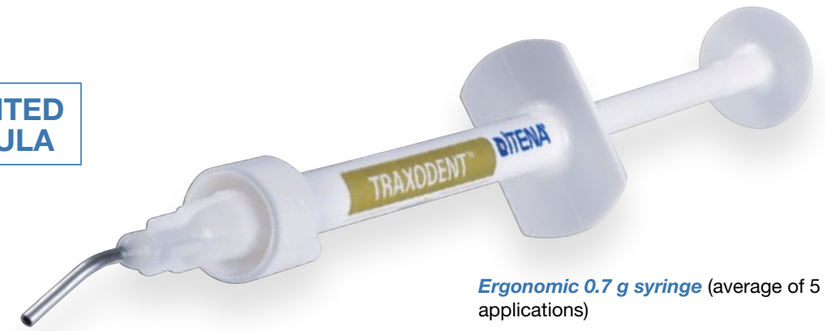
Bite registration: 2 x 1:1 / 50 ml + 6 mixing tips + 6 intraoral tips
HYD -REG **Accessories**

4 50 ml 1:1/ 2:1 mixing gun ..... HY-GSII
5 Set of 100 transparent intraoral tips for special bite registration HY-TG100
6 Set of 50 ECO green mixing tips HY-TG50

TRAXODENT

Hemostatic gingival retraction paste

PATENTED FORMULA



Ergonomic 0.7 g syringe (average of 5 applications)

Airtight resealable aluminum pouch
The paste does not dry out, and can be stored

INDICATIONS

Use before:
- Taking impressions, to ensure easy visibility of the edges of the preparation
- Any clinical procedure requiring gingival hemostasis or deflection

Patented formula with:
- Clay
- 15% aluminum chloride hexahydrate
- Fumed silica
- Potassium nitrate

ADVANTAGES

- **Rapid, effective retraction in 2 min**
  TRAXODENT's chemomechanical expansion enables displacement of tissues upon contact with air
- Malleable paste consistency
- **Fast and easy application, rinsing and elimination of product**
- **Optimized hemostasis**
  Applying TRAXODENT stops bleeding via a compression effect while absorbing gingival fluids
- **Maneuverable, adjustable tips**
  Easy to determine injection angle

Product references

Packs of TRAXODENT	
2x 0.7 g syringes + 6 needle tips	TRASTRT-2
7x 0.7 g syringes + 15 needle tips	TRABOI-7
25x 0.7 g syringes + 50 needle tips	TRAPACK-25

Tip refills	
20x 16G needle tips	TRAEMB-20
60x 16G needle tips	TRAEMB-60

DENTOCROWN HD

Temporary restoration material

INDICATIONS

DENTOCROWN HD is a chemical cured composite resin for making crowns, temporary bridges, inlays, onlays and veneers.
Short-term use in the oral cavity (up to 1 month).

ADVANTAGES

- **Increased flexural and compression strength**
- Absorbs shocks to prevent fractures or cracks in the margin edges
- Keeps its shape, even under pressure
- **Perfect maintenance** of the temporary tooth
- **Weakly exothermic curing reaction**
- Protects pulp tissue from stresses and chemical, physical, bacterial and thermal lesions
- Does not heat up, for increased patient comfort
- **Easy removal** due to the elastic phase
- **Aesthetic appearance** with natural-looking shades for a brilliant finish
- High shade stability
- **Easy finishing and polishing**
- Used on healthy teeth
- No stickiness on demolding
- **Rapid setting time:** sets completely in just 4 minutes
- **Ergonomic gun**

USE PROTOCOL

0.00: Start
Attach the cartridge to the gun. Start mixing by moving the gun's piston to fill the impression

0:45 Insert into mouth
Insert the composite resin in the mouth within 45 seconds after starting mixing

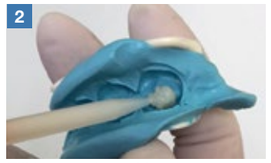
1:30 Removal
Remove during the elastic phase, that is within 1 min 30 seconds of starting mixing. Clean the temporary crown with cotton soaked in alcohol

2:30 Completely set
1 min after removal, the resin is resistant and hard enough for temporary cement (with PROVITEMP).
Complete finishing and polishing

CLINICAL CASE

Case of Dr. Bury Laurence

Initial view of tooth to be treated



Fill impression with DENTOCROWN HD

View of the impression

View of temporary tooth

Final result

Temperature variations[1]

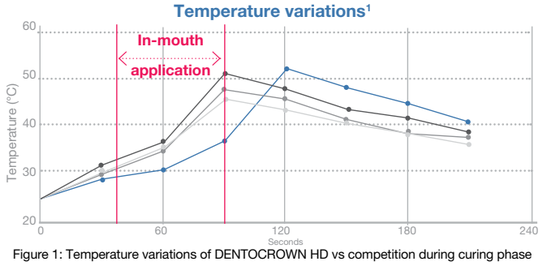


Figure 1: Temperature variations of DENTOCROWN HD vs competition during curing phase

- DENTOCROWN HD (ITENA CLINICAL)
- Acrytemp (Zhermack)
- Structur 2SC (Voco)
- DENTOCROWN (ITENA CLINICAL)

Compressive strength[1]

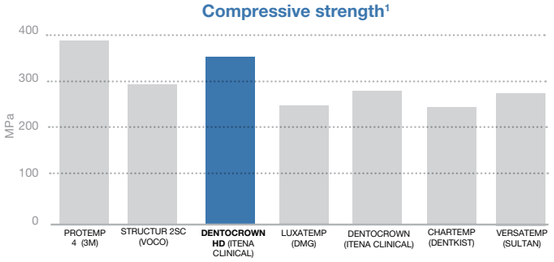


Figure 2: Compressive strength of DENTOCROWN HD vs competition

Source:
1. ITENA Clinical internal test report.

HINTS AND TIPS

The DENTOCROWN HD can be reworked

There are 2 methods available:

- *Remove the viscous layer (inhibition layer) from the surface of the temporary tooth with modified alcohol. Rework.*
- *Use the temporary cement **DENTOTEMP** (p. 37) to fill in empty spaces.*

Technical data

High compressive strength: ..... 330 MPa
Flexural strength: ..... 70 MPa
Preparation time: ..... 45 sec max
Time in mouth: ..... 45 sec

Product references

Cartridges

DENTOCROWN HD A1 ..... DWNHD50-A1
74 g cartridge + 10 mixing tips

DENTOCROWN HD A2 ..... DWNHD50-A2
74 g cartridge + 10 mixing tips

DENTOCROWN HD A3 ..... DWNHD50-A3
74 g cartridge + 10 mixing tips

50 ml 1:1 mixing gun ..... HYG-GSII

Cartridge mixing tips DWNE-10
10 tips

DENTAL CARE

PREVENT SEAL

PREVENT SEAL

Self-etching light-cured pit & fissure sealant

EXTRA-THIN NEEDLE TIPS
for precise application

INDICATIONS

Use the self-etching technique for **preventive obturation of pits and fissures in permanent teeth of patients with a high risk of caries.**

- Pits and fissures in teeth are particularly susceptible to dental caries because their crevices are difficult for the patient to clean.
- Obturation of these pits and fissures with PREVENT SEAL protects the sensitive tooth surface by covering them with a layer of watertight resin to prevent bacterial penetration and improve oral hygiene.

ADVANTAGES

- **Self-etching** means no etching or rinsing is required
- **Excellent adhesion to enamel (20 - 25 MPa)**
- Long-lasting sealant
- **Contains fluorides**
- **Optimal fluidity**
- Perfect spread for all fissures and crevices
- **Light-curing** to 4.5 mm
- **Supplied with extra-thin tips** for precise application of sealant without losing any of the dose

HINTS AND TIPS

- Use air abrasion then rinse the tooth carefully before applying the sealant. No aluminum particles should remain, as they reduce the adhesion of PREVENT SEAL
- The prepared surface must be well dried before application of PREVENT SEAL, which is hydrophobic
- The PREVENT SEAL is a composite resin, and is compatible with all composites on the market
- Contains the photoinitiator camphorquinone. Use a light-curing lamp which emits between 400 and 500 nm

Product references

PREVENT SEAL ..... PVSEAL
1.4 g syringe + 10x 25G needle tips

Refills PVSE-25G
20x 25G needle tips

PROTOCOL

Photos from Dr. Shalom Melher

Initial view

Clean with a small brush under a stream of water

Dry with care

Apply PREVENT SEAL

Allow to act for 15 seconds

Light-curing for 20 seconds

Check the occlusion

Final view

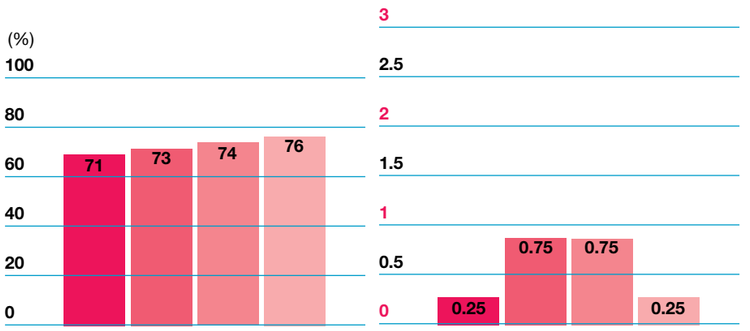


Figure 1: Mean rate of fissure penetration of PREVENT SEAL vs competition[1]

Figure 2: Penetration score of coloring in a fissure cemented with PREVENT SEAL vs competition[1]

Score 3: penetration of coloring into the fissure itself

Score 2: penetration reaching into the inside half of the cemented fissure

Score 1: penetration limited to the exterior half of the cemented fissure

Score 0: no penetration of the coloring

Clin Pro Helioseal Embrace PREVENT SEAL

STUDY FINDINGS:

Performance of PREVENT SEAL - penetration of the sealant into pits and fissures and watertightness of the peripheral joint - is equivalent to that of conventional sealants requiring phosphoric acid etching.

Source: 1. Dr E. Savi, Pr C. Tardieu, Pr J. Déjou. Comparative evaluation of the sealing abiliy of 4 materials used for sealing pits and fissures. IMEB Laboratory, department of Odontology, Marseille's University.

TOOTH WHITENING

PURE OFFICE
PURE CARE
PURE PROTECT

PURE OFFICE

Professional intracanal tooth whitening kits

Value pack

Starter kit

ADVANTAGES

- **RAPID:** single in-office procedure. The 1 to 3 step treatment takes place in your office
- **SIMPLE:** includes everything required for optimal performance, available in starter kit or value pack containing:
  - PURE OFFICE whitening gel syringe(s) containing 35% hydrogen peroxide
  - gingival barrier syringe(s)
- **PATIENT COMFORT:** Neutral pH to facilitate complete release of the peroxide and ensure optimal patient comfort
- Mint flavor

Before

After

Product references

PURE OFFICE Starter kit PROF35-C1*
1x 5 g syringe of PURE OFFICE tooth whitening gel
+ 2 syringes of PURE PROTECT gingival barrier

PURE OFFICE Value Pack PROF35-RF3*
3x 5 g syringes of PURE OFFICE tooth whitening gel
+ 6 syringes of PURE PROTECT gingival barrier

Restock
Pure Office tips PROEM-2
2 tips for whitening syringe containing 35% HP

*Other references, contact us according to country: PROF35-C1W, PROF35-R3W

PURE PROTECT

Gingival protection gel

PURE PROTECT is a gingival protection gel used to isolate the gum from the tooth during a tooth whitening procedure.

ADVANTAGES

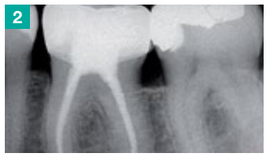
- Protects the gum during in office treatment
- Effective prevention of any sensitivity

Product reference

PURE Protect
4 syringes of gingival barrier ..... PRP- BG

USE PROTOCOL

1 Remove the syringe from the refrigerator and allow it to reach room temperature. Protect the tooth to be whitened by preparing an operating field



2 Assess the quality of the root canal obturation to avoid any risk of the product spreading

3 Clean the pulp chamber: remove pulp tissue and necrotic tissue residue

4 The canal must have root canal obturation material removed to around 3 mm under the amelocemental junction. Isolate the gutta-percha obturation by placing a small glass ionomer plug

5 Place the mixing tip on the PURE OFFICE syringe

6 Distribute the product in the prepared canal and compress the product into the cavity using a micro-applicator

7 Complete temporary closure using a watertight material

8 Perform a check 7 days after the procedure. Repeat application of the product if required

9 When whitening is satisfactory, rinse, dry and apply a temporary obturation for 5 weeks before the final reconstruction

PURE CARE

Desensitizing gel

PURE CARE is an aqueous gel indicated for remineralization and desensitizing after a tooth whitening treatment.

Professional application: immediately after tooth whitening.
Application by patient (elective): for walk-in treatments.

ADVANTAGES

- Easy to use
- Reduces tooth sensitivity before and after treatment

Product reference

PURE Care ..... PRC-DSB
4x 2.3 g syringes of desensitizer

DISPOSABLE

AIREO
TIPS

AIREO V-LOCK SYSTEM

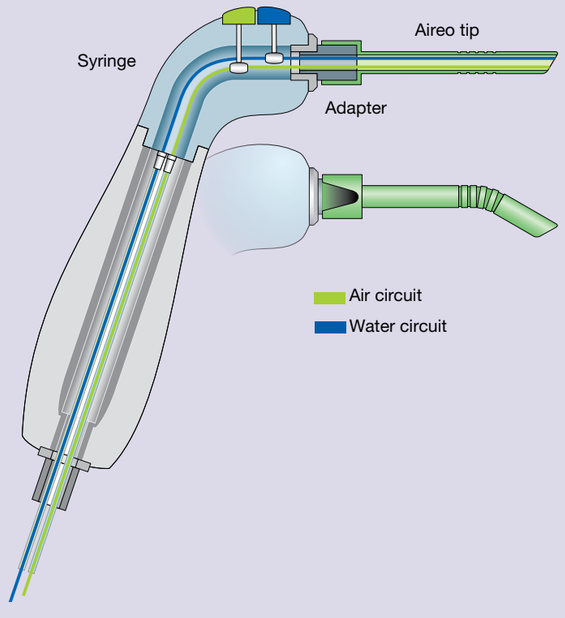
Disposable air/water syringe tips

MADE IN FRANCE

ADVANTAGES

- Made in France
- **Dry air guarantee:** 2 separate channels for air and water to the end of the tip
- Disposable: **reduced risk of microbial cross-contamination**
- **V-notch** for easy insertion
- **Flexible tip**: easy for the dental surgeon to keep the required angle
- Reaches hard-to-access areas **without reducing spray quality**
- Medical-grade recyclable plastic

DIAGRAM OF CIRCUIT



SET UP

- Simply press in the tip, which fits the adapter perfectly
- The tip affixes firmly to the adapter to avoid creation of air pockets leading to pressure loss at end of tip
- To change the tip, simply pull it out

Product references

Box of 200 AIREO V-Lock System tips

Green AIRU200-V
Blue AIRU200-B
White AIRU200-A

TIPS

Product references

Automix syringe tips

Mixing tips
Refill with 20 mixing tips DTEM-20
Thin tips
Length: 100 mm ø 1.1 mm
Refill with 25 mixing tips
+ 25 thin intraoral tips DCE-50
Extra-thin tips
Length: 135 mm ø 0.09 mm
Refill with 25 mixing tips
+ 25 extra-thin intraoral tips DCEXXF-50

Double cartridge tips

Mixing tips for DENTOCROWN HD cartridge
10 tips DWNE-10
Mixing tips with thin intraoral tip
Refill with 25 mixing tips
+ 25 intraoral tips ..... DTA

HYDROSPEED tips

Set of 50 yellow ECO mixing tips HY-TY50
Set of 100 yellow intraoral tips HY-TY100
Set of 50 yellow ECO mixing tips
+ clamping ring HYM-TY50
Set of 100 transparent intraoral tips
for special bite registration HY-TG100
Set of 50 green ECO mixing tips HY-TG50

Needle tips

25G needle tips (PREVENT SEAL)
Ø 0.05 mm
Refill with 20x 25G needle tips PVSE-25G
22G needle tips (DENTOETCH)
Ø 0.07 mm
Refill with 20x 22G needle tips ..... DEA -20
16G needle tips (TRAXODENT)
Ø 1.3 mm flexible
Refill with 20 needle tips ..... TRAEMB -20
16G needle tips (TRAXODENT)
Ø 1.3 mm flexible
Refill with 60 needle tips ..... TRAEMB -60

MICRO-APPLICATORS

Product references

Micro-applicators
100 white conical micro-applicators AFB-100
100 green spherical micro-applicators ASV-100

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CLINICAL PRODUCTS

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