DENTAL GUIDE

2021
2022

İTENA®
CLINICAL PRODUCTS

4
PROSTHETIC DENTISTRY

14
RESTORATIVE DENTISTRY

50
CARE & PREVENTION

58
AESTHETICS

PROSTHETIC DENTISTRY 4-5
NUMERYS GF 6-7
NUMERYS HC 8-9
DENTOCROWN HD 10-11
TEMPORARY CROWNS 12-13

RESTORATIVE DENTISTRY 14-15
DENTOCLIC stainless steel and burn-out posts 16-17
DENTOCLIC sanded titanium posts 18
DENTOCLIC glass fiber posts 19
DRILLS 21
I-POST 22
DENTOCORE 24-25
REFLECTYS 26-28
POLISH HD 29
IPERBOND MAX 30-31
QUICK BOND 32
BOND ACTIVATOR 33
C-RAM BOOSTER 34
SILAN-IT 34
DENTOETCH 35
CERAM-ETCH 35
CEMENTATION GUIDE 36-37
PROVITEMP 38
DENTOTEMP 39
TOTALCEM 40
TOTAL C-RAM 41
DENTOCEM 42
OBTURYS 43
MTA BIOREP 44
MTA BIOSEAL 45
HYDROSPEED 46-48
TRAXODENT 49

CARE & PREVENTION 50-51
KLIRICH PRO 52
PLAS'TIP 53
PERIODONTAL & SURGICAL GUIDE 54-55
PREVENT SEAL 56-57

AESTHETICS 58-59
PURE 60-61
TEETH WHITENING GUIDE 62-63
AIREO 64
TIPS 65

PROSTHETIC DENTISTRY

NUMERYS HC

Hydrid ceramic block for CAD/CAM

Recommended for laboratories

ADVANTAGES

- **High flexural strength** above 200 MPa & fracture toughness
- No post-colouring, no firing process
- **Real wear resistance**
- **Resistant and flexible material** at the same time (75% ceramics and 25% resin)
- **Compatible with all dental CAD/CAM systems** except Planmeca
- Better edge quality up to 0.4 mm thickness
- Real shock absorber
- **Easy to mill and to polish in a few minutes**
- Excellent aesthetic results
- **Brilliant and long-lasting performance**

INDICATIONS

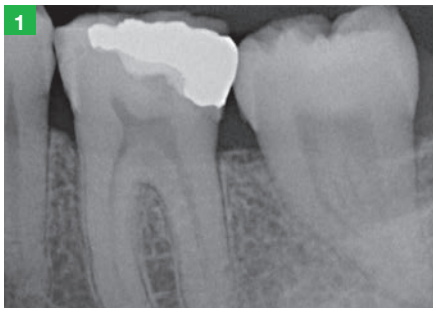
Milling dental restoration using a dental CAD/CAM system for carious lesions or structural defects in teeth including inlay, onlay, veneer (minimum thickness 0.4 mm), crown and partial crown, implant retained crowns

Technical data

Compressive strength (Mpa)	448 (±38)
Diametral tensile strength (Mpa)	
Diameter 10 mm	59 (±4)
Diameter 14 mm	51 (±4)
Flexural strength (Mpa)	
Three-point bending test.	210 (±11)
Biaxial Flexural strength	173 (±6)
Vickers hardness (VHN, kg/mm²)	85 (±5)

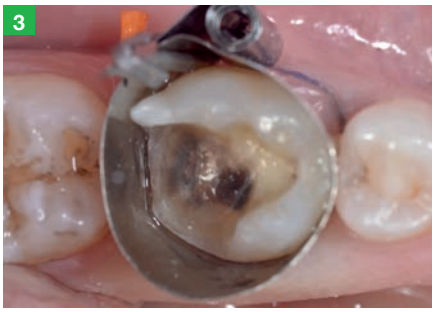
PROTOCOL

Dr Marco Morello case

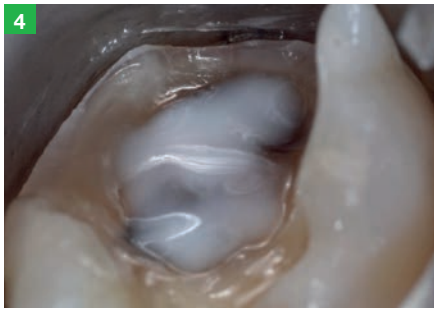


Pre-operative radio on tooth 36

Initial view before treatment

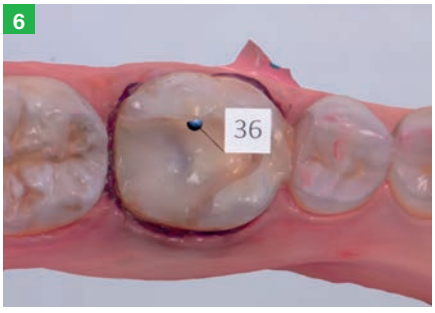


Removal of the amalgam under anesthesia, then rise of the distal subgingival margin part using the REFLECTYS Flow, shade A3



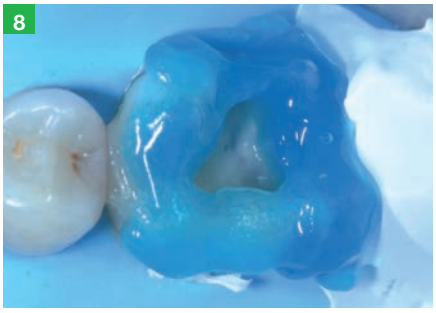
Protection of the cavity with MTA Biorep (ITENA Clinical)

Application of a layer of REFLECTYS Flow A3 to eliminate undercuts by following the classic bonding protocol. Light-curing for 20 sec then careful polishing of the preparation

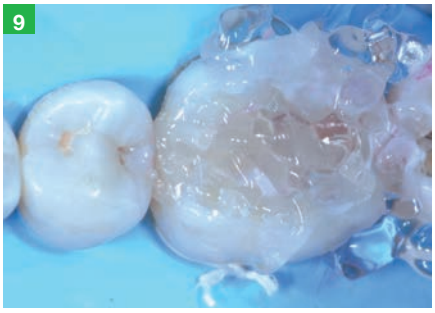


Digital impression of the prepared tooth and adjacent teeth

Milling of a NUMERYS HC block A2/12



Etching with Dentoetch during 10s on enamel and dentine isolating the mesial surface of 37 with teflon tape



Application of a layer of glycerine and light-curing for 10 sec of each face of the element

Final view of the inlay-onlay after cementation and polishing.

HINTS & TIPS

For the cementation of your restorations, use TotalC-Ram, auto-adhesive cement. Find it on page 41 and on our Cementation Guide pages 36-37

References

5 NUMERYS HC blocks

	Size 12 L	Size 14L
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 - 16mm thick)

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

NUMERYS GF

Glass fiber composite blocks and disks for CAD/CAM

1 disk = up to 40 posts-and-core
1 block = 1 post-and-core

Recommended for laboratories

ADVANTAGES

- 80% unidirectional glass fibers embedded in 20% epoxy resin matrix
- **Higher number of glass fibers than in traditional glass fiber posts.** Homogeneity of the material
- **Good radiopacity,** no discolouration of the material over time
- Single component for a better anatomical fit: **better adhesion between the post-and-core system and the root canal**
- **Easy clinical procedure.** Same root canal and post & core preparation as dental glass fiber posts. Same cementation procedure as traditional post and core systems
- **Full metal-free post and core system:** no opacification of the core required for better aesthetic results
- **No risk of decementation** between the posts and core build-up materials
- Excellent cost/benefit ratio compared to cast metal posts

INDICATIONS

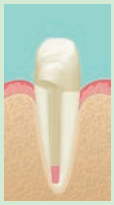
- Milling of mono-radicular posts-and-core
- Milling with or without water on all universal milling units
- Milling with a diamant or composite bur and a metal post-and-core program or equivalent

Prix de l'INNOVATION
Lauréat 2019
ADF

SIMPLIFIED CEMENTATION PROTOCOL

Post-and-core preparation
Milling + silane + bonding

Root canal preparation
Etching + bonding



Post-and-core adhesion
Self-adhesive cement

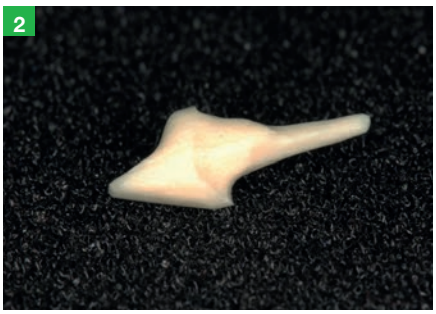
Crown preparation
Milling + primer

Crown cementation
Self-adhesive cement

PROTOCOL

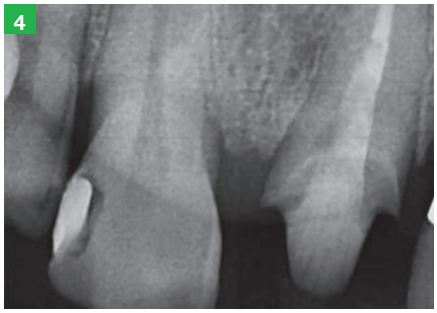
Dr Gérard Duminil case

X-ray on tooth 21 after removing the failing crown

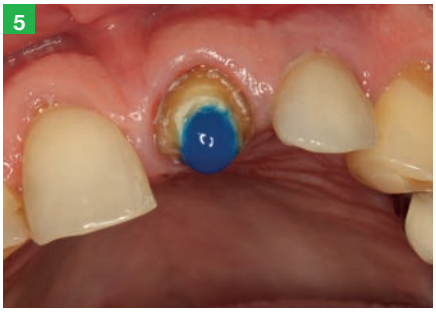


After milling view of the post-and-core

Fitting on the model



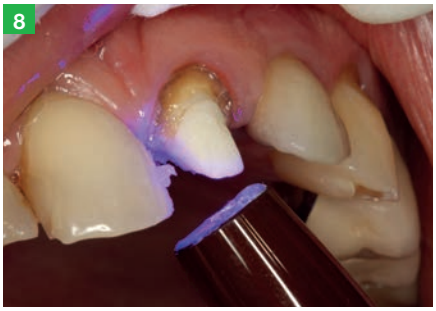
Radiological control of the adaptation



Etching the canal

Silane of the post-and-core before the bonding

Into the root canal, apply :
- bonding. Dry.
- activator. Dry.
- cement (TOTALC-RAM)



Light-curing immediately after insertion of the post-and-core. Quick elimination of the cement excesses

View on the post-and-core before taking the impression prior to the crown making

Lingual view of the adaptation

Final result with the crown in situation

References

5 NUMERYS GF blocks
(H18mm, L 15mm, l 16mm)..... NYSGF-BCS

1 NUMERYS GF block
(Ø98.5mm - 20mm thick)..... NYSGF-DSK

Technical data

Flexural strength	990 MPa
Module of elasticity	23.8 GPa
Average diameter of fibers	20 µm
Average fibers per block	700 000 fibers
Average fibers per disk	22 millions fibers

DENTOCROWN HD

Self-curing resin for temporary crowns & bridges

ADVANTAGES

- **High compressive and flexural strength**. Extremely hard and resistant, absorbent of shocks for fracture prevention.
- Keeps its shape even under pressure
- **Low polymerisation shrinkage**. Better marginal adaptation
- **Low exothermic polymerisation reaction**
- Increased patient comfort
- **Easy retrieval** thanks to its elasticity
- **Aesthetic result**. High stability of colour and fluorescence Natural shine
- No sticky appearance when removing
- **Standard dispenser gun**. No extra costs involved
- Can be used on living teeth

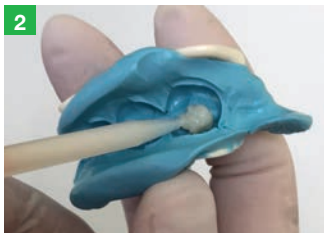
INDICATIONS

DENTOCROWN HD is a suitable material resin for making temporary crowns, inlays, onlays, bridges… (short-term use, up to a month in the oral cavity).

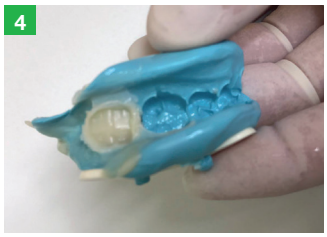
PROTOCOL

Dr Bury Laurence case

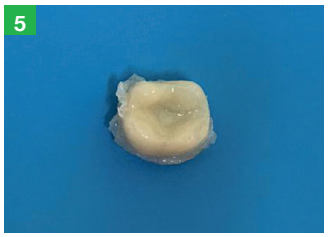
Initial view of the tooth to be treated.



Filling the impression with the material



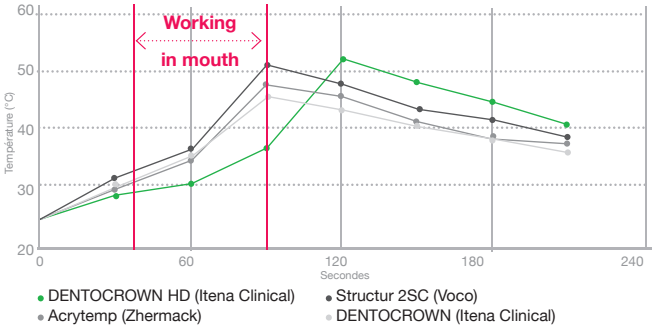
View in the impression



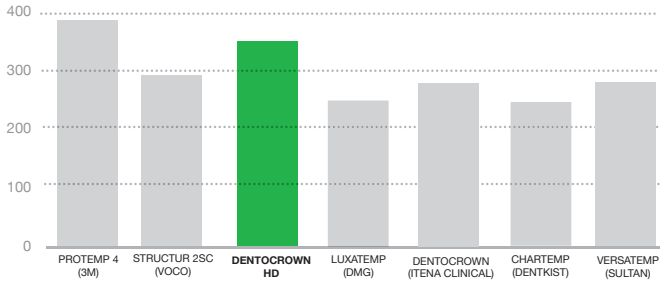
Temporary tooth

Final result

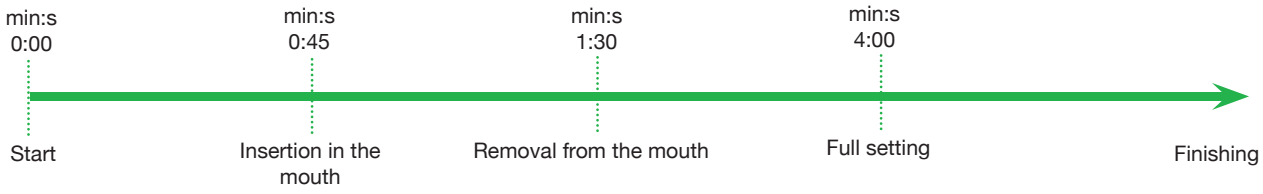
Polymerization Temperature Rise (°C)



Compressive strength (MPa)



DENTOCROWN HD application times are as follow



HINTS & TIPS

It's possible to rebase DENTOCROWN HD.

2 ways:

- Remove the viscous (inhibiting) layer that forms on the surface of the temporary tooth with alcohol, and rebase.

*- Use **DENTOTEMP** to fill holes.*

References

Cartridges

DENTOCROWN HD A1

50 ml (76 g) cartridge + 10 mixing tips.....DWNHD50-A1

DENTOCROWN HD A2

50 ml (76 g) cartridge + 10 mixing tips.....DWNHD50-A2

DENTOCROWN HD A3

50 ml (76 g) cartridge + 10 mixing tips.....DWNHD50-A3

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

Mixing tips for cartridge syringes

10 mixing tips DWNE-10

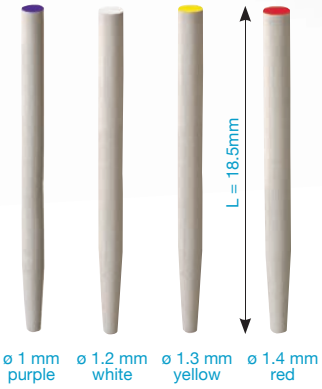
Technical data

High compressive strength.....320 MPa
Flexural strength for 10 min.....40 MPa
Working time .....30-50 sec max
Setting time .....40-70 sec

RESTORATIVE DENTISTRY

DENTOCLIC

Glass-fiber posts



ADVANTAGES

- Made of 80% unidirectional oriented glass-fiber embedded in 20% epoxy-resin.
- Mechanical and chemical retention thanks to the bond between the core build-up composite material and the glass-fiber post
- Elastic behaviour similar to dentin. A favourable relationship between tooth constraint and deformation, thanks to a homogeneous distribution of the mechanical constraints
- Perfect aesthetic
- **High radiopacity** (232% Al)
- **Biocompatible**
- No risk of corrosion or colouration
- Compatible with DENTOCLIC drills

INDICATIONS

- Optimal aesthetic solution for prosthetic restorations
- Single ceramic restorations incorporating glass-fiber posts in the laboratory
- Corono-radicular restorations with glass-fiber post

PROTOCOL

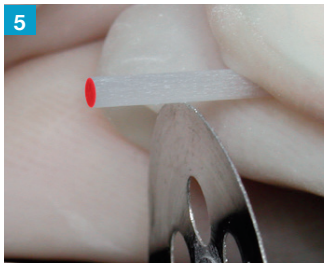
See p. 23 for the complete clinical procedure “Corono-radicular restoration kit”

Select the glass-fiber post and matching drill using the calibrating gauge on the drill

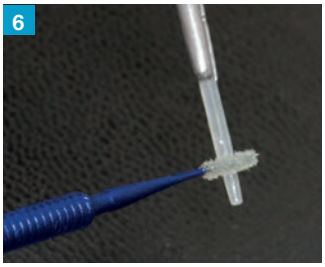
Prepare the canal with a Gates or a Largo drill

Prepare the canal with the calibrated cylindro-conical drill

Try the glass-fiber post for size



Cut the post perpendicularly with a disc or a cutting plier. Store in alcohol until bonding



Apply the bonding (IPERBOND MAX or QUICKBOND) to the glass-fiber post and surfaces according to the instructions for use

Coat the post with core build-up (DENTOCORE/DENTOCORE BODY), then inject the core build-up into the canal. Fill a matrix with DENTOCORE/ DENTOCORE Body

Remove the matrix and shape

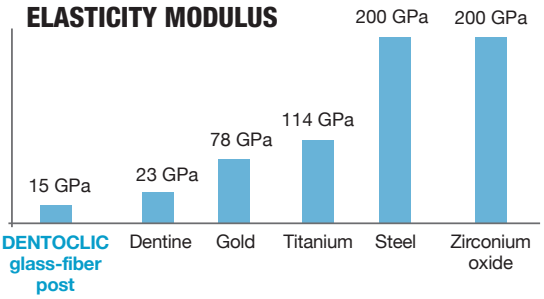
HINTS & TIPS

To increase the chemical bond between glass fiber and adhesive, apply Silane to the surface and dry thoroughly before applying adhesive.

How to remove a glass-fiber post?

1. *Remove the composite in order to gain access to the relevant post.*
2. *Make an initial hole at the location of the fiber post.*
3. *Use either a diamond-tipped, sonic or ultra-sonic insert without water, or a suitable drill, to delaminate the fiber and reveal the canal under the restoration.*

In comparison to other systems such as post-and-core, the clinical value of this type of restoration lies in the ease of removal.



References

Kit of 20 glass-fiber posts

Ivory (6 purple + 6 white + 4 yellow + 4 red) + 1 driver drill, 4 cylindro-conical reamers, 1 manual wrench, 1 gauge..... KFV020

Translucent (6 purple + 6 white + 4 yellow + 4 red) + 1 driver drill, 4 cylindro-conical reamers, 1 manual wrench, 1 gauge..... KFVT20

Refill packs of 5 glass-fiber posts

	Translucent	Ivovry
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

DENTOCLIC

CYLINDRO-CONICAL STAINLESS STEEL AND BURN-OUT POSTS

The original DENTOCLIC head imprints a **double-dip shape** in the impression material. It locks the post in place with a click and allows an ulterior repositioning if necessary.

References

20 cylindro-conical stainless steel posts refill

lg : 9.6 mm	ø 1.2 mm	○	DIA20-095
lg : 11.5 mm	ø 1.2 mm	○ L	DIAL20-114
lg : 9.6 mm	ø 1.3 mm	●	DIJ20-095
lg : 11.5 mm	ø 1.3 mm	● L	DIJL20-114
lg : 11.6 mm	ø 1.4 mm	●	DIR20-115
lg : 13.5 mm	ø 1.4 mm	● L	DIRL20-134
lg : 13.6 mm	ø 1.5 mm	●	DIB20-135
lg : 15.6 mm	ø 1.6 mm	●	DIV20-155
lg : 17.6 mm	ø 1.7 mm	●	DIN20-175

40 cylindro-conical burn-out posts refill

lg : 9.6 mm	ø 1.15 mm	○	DCAA40-095
lg : 11.5 mm	ø 1.15 mm	○ L	DCAAL40-114
lg : 9.6 mm	ø 1.25 mm	●	DCAJ40-095
lg : 11.5 mm	ø 1.25 mm	● L	DCAJL40-114
lg : 11.6 mm	ø 1.35 mm	●	DCAR40-115
lg : 13.5 mm	ø 1.35 mm	● L	DCARL40-134
lg : 13.6 mm	ø 1.45 mm	●	DCAB40-135
lg : 15.6 mm	ø 1.55 mm	●	DCAV40-155
lg : 17.6 mm	ø 1.65 mm	●	DCAN40-175

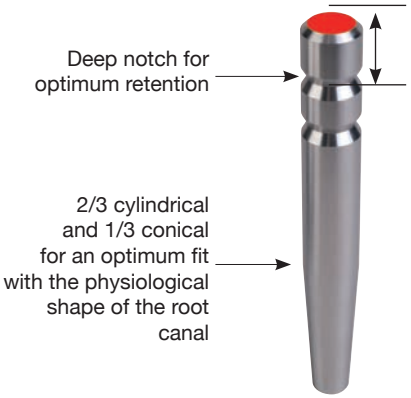
L = longer posts

100 cylindro-conical burn-out posts refill

lg : 9.6 mm	ø 1.25 mm	●	DCAJ100095
lg : 11.6 mm	ø 1.35 mm	●	DCAR100115
lg : 13.6 mm	ø 1.45 mm	●	DCAB100135
lg : 15.6 mm	ø 1.55 mm	●	DCAV100155
lg : 17.6 mm	ø 1.65 mm	●	DCAN100175

Deep notch for optimum retention

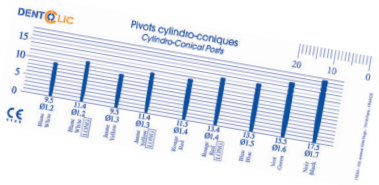
2/3 cylindrical and 1/3 conical for an optimum fit with the physiological shape of the root canal



A '8 shape figure' head for a "double clicking" effect ensuring good imprint repositioning

INOX :
Stainless steel for medical use
PLASTIC:
Food grade polystyrene used. Intended for quick combustion with no waste

Calibrating gauge: match the post easily to the correct drill, thanks to the colour-coded system



CONICAL STAINLESS STEEL AND BURN-OUT POSTS

References

20 conical stainless steel posts refill

lg : 9 mm	ø 1.5 mm	●	CIJ20-09
lg : 11 mm	ø 1.7 mm	●	CIO20-11
lg : 12 mm	ø 1.8 mm	●	CIV20-12
lg : 13 mm	ø 1.82 mm	●	CIR20-13
lg : 14 mm	ø 2 mm	●	CIB20-14
lg : 16 mm	ø 2.2 mm	●	CIV20-16

40 conical burn-out posts refill

lg : 9 mm	●	CCAJ40-09
lg : 11 mm	●	CCAO40-11
lg : 12 mm	●	CCAV40-12
lg : 13 mm	●	CCAR40-13
lg : 14 mm	●	CCAB40-14
lg : 16 mm	●	CCAV40-16

100 conical burn-out posts refill

lg : 9 mm	●	CCAJ100-09
lg : 11 mm	●	CCAO100-11
lg : 12 mm	●	CCAV100-12
lg : 13 mm	●	CCAR100-13
lg : 14 mm	●	CCAB100-14
lg : 16 mm	●	CCAV100-16

DENTOCLIC

Sanded titanium cylindro-conical post

ADVANTAGES

- **Increased mechanical retention** due to the sandblasted titanium surface
- Guaranteed **biocompatibility**
- Colour-coded by diameter of posts
- White, yellow and red in colour, with 2 different lengths per diameter
- DENTOCLIC system cylindro-conical reamers included

INDICATIONS

Direct restoration of posterior teeth

Technical data

- **Grade 5 titanium** conforms with the ISO 5832-3 and ASTM F136 standards (biocompatibility standards for surgical implant applications)
- **Arithmetic roughness** (Ra): 0.7 - 1 microns
- **Total roughness** (Rt): 7 - 10 microns

References

TITANIUM kit Sanded 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 driver drill ø 0.95 mm
6 cylindro conical reamers ○ ● ● ● ● ●
1 manual wrench + 1 calibrated gauge

20 sanded titanium post refills

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

L = longer posts

OUR KITS

PREMIUM Kit Cylindro-conical posts — KPREMIUM

- ○ 10 steel + 10 burn-out
- ● 20 steel + 20 burn-out
- ● 20 long steel + 20 long burn-out
- ● 20 steel + 20 burn-out
- ● 15 long steel + 15 long burn-out
- ● 15 steel + 15 burn-out

- 1 driver drill ø 0.95 mm
- 6 cylindro-conical reamers ○ ● ● ● ● ●
- 1 manual wrench + 1 calibrated gauge

EXCELLENCE Kit Cylindro-conical posts — KEXCEL

- ○ 10 steel + 10 burn-out
- ● 40 steel + 40 burn-out
- ● 40 steel + 40 burn-out
- ● 25 steel + 25 burn-out
- ● 8 steel + 8 burn-out
- ● 2 steel + 2 burn-out

- 1 driver drill ø 0.95 mm
- 6 cylindro-conical reamers ○ ● ● ● ● ●
- 1 manual wrench + 1 calibrated gauge

CONICAL Kit Conical posts — KC-250

- ● 40 steel + 40 burn-out
- ● 40 steel + 40 burn-out
- ● 25 steel + 25 burn-out
- ● 10 steel + 10 burn-out
- ● 8 steel + 8 burn-out
- ● 2 steel + 2 burn-out

- 1 driver drill ø 0,90 mm
- 2 cylindro-conical reamers n°1 ○ ○ + 2 cylindro-conical reamers n°2 ● ●
- 1 manual wrench + 1 calibrated gauge

PERFORMANCE Kit Cylindro-conical posts and Performance reamers — KPERF-250

- ○ 10 steel + 10 burn-out
- ● 40 steel + 40 burn-out
- ● 40 steel + 40 burn-out
- ● 25 steel + 25 burn-out
- ● 8 steel + 8 burn-out
- ● 2 steel + 2 burn-out

- 1 driver drill Ø 0.75mm
- 6 drills Performance reamers ○ ● ● ● ● ●
- 1 manual wrench + 1 calibrated gauge

LOCKS

ADVANTAGES

- Conical or cylindro-conical ; intended to lock post-and-cores in the residual tooth
- Allow to manage difficult axes

INDICATIONS

Realization of post-and-cores on multi-anchors with complex axes

CONICAL LOCKS

CYLINDRO-CONICAL LOCKS

References

10 cylindro-conical stainless steel lock refills		
lg : 22 mm	ø 1.2 mm ○	DCLAIA-10
lg : 22 mm	ø 1.3 mm ●	DCLAIJ-10
lg : 22 mm	ø 1.4 mm ●	DCLAIR-10
lg : 22 mm	ø 1.5 mm ●	DCLAIB-10
lg : 22 mm	ø 1.6 mm ●	DCLAIV-10
lg : 22 mm	ø 1.7 mm ●	DCLAIN-10

20 cylindro-conical burn-out lock refills	
lg : 22 mm ø 1.15 mm ○	DCLACA-20
lg : 22 mm ø 1.25 mm ●	DCLACJ-20
lg : 22 mm ø 1.35 mm ●	DCLACR-20
lg : 22 mm ø 1.45 mm ●	DCLACB-20
lg : 22 mm ø 1.55 mm ●	DCLACV-20
lg : 22 mm ø 1.65 mm ●	DCLACN-20

Conical lock refills	
10 clavettes adaptables inox, lg 23 mm, ø 1.8 mm	CCLAI10
20 clavettes adaptables calcinables, lg 23 mm, ø 1.75 mm	CCLACA20

DRILLS AND REAMERS

CYLINDRO-CONICAL REAMERS

for shaping the canal to the dimensions of the cylindro-conical post. Moderate reaming with complete security

For use with:
- *Stainless steel and burn-out posts*
- *Glass-fiber posts*
- *Titanium posts*

References

Cylindro-conical reamer refill (x4)	
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 REAMERS

higher cutting capacity owing to its straight blades, sharp edges, working tip and high degree of sharpness

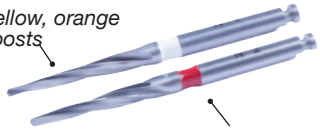
For use with:
- *Stainless steel and burn-out posts*
- *Glass-fiber posts*
- *Titanium posts*

Performance reamer refill (x3)	
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 REAMERS

for reaming the canal to the dimensions of a conical post

For use with yellow, orange & red conical posts



For use with green, blue & purple conical posts

Conical reamer refill (x4)		
N°1	○	CF4-01
N°2	●	CF4-02
Mix 2 N°1 + 2 N°2		CF4-MIX

DRIVER DRILLS

for locating the canal axis in an endodontic treatment

Driver drill refill (x4)	
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 mixed	FPASSORT

GATES DRILLS for enlarging the root canal opening

Gates drill refill (x6)	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 mixed	FGASSORT-28

Gates drill refill (x6)	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 mixed	FGASSORT-32

LARGO/PEESO DRILLS for enlarging the root canal walls

Largo drill refill (x6)	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 mixed	FLASSORT-28

Largo drill refill (x6)	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 mixed	FLASSORT-32

DENTOCORE BODY

Core build-up and post cementation composite material

Automix syringe

ADVANTAGES

- **Dual polymerisation (self and light-curing)** Elastic phase allows an easy removal of excess material
- **Based on hyperbranched polymers technology**
- **Excellent radiopacity**
- **Excellent compressive strength**
- Enhanced mechanical properties of conventional Bis-GMA composite
- Long-lasting restorations
- **Low polymerisation shrinkage**
- Better marginal adaptation

INDICATIONS

- Core build-up
- Cementation of glass-fiber post

References

DENTOCORE Body A3 shade
1 x 50 g cartridge
+ 25 mixing tips
+ 25 intra-oral tips DCBODY-50

DENTOCORE Body Automix A3
1 x 5 ml syringe A3
+ 10 mixing tips
+ 10 fine intra-oral tips
+ 10 extra-fine intra-oral tips DABODY1-10

DENTOCORE Body Automix A3 - Value Pack
3 x 5 ml syringes A3
+ 30 mixing tips
+ 30 fine intra-oral tips
+ 30 extra-fine intra-oral tips DABODY3-VP

Dispensing Gun for Cartridge ..... DCP

Firm consistency for easier handling without condensation

Technical data

Compressive strength	250 MPa
Linear shrinkage	1.2%
Flexural strength	.200 MPa
Diametral tensile strength	40 MPa
Water absorption	2 µg/mm3
Working time	1 min 30 - 3 min 30
Auto setting time	2 min 30 - 4 min 30
Radiopacity	400 % Al

DENTOCORE

Excellent viscosity balance (not too viscous not too liquid) for a better penetration in cracks

References

DENTOCORE Automix A3

1 x 5 ml syringe A3
+ 10 mixing tips
+ 10 fine intra-oral tips
+ 10 extra-fine intra-oral tips DCSAK1

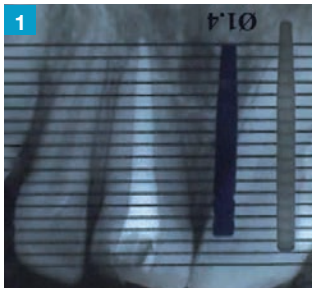
DENTOCORE White shade

1 x 50 g cartridge
+ 25 mixing tips
+ 25 intra-oral tips DCB-50

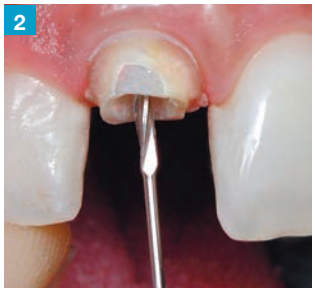
DENTOCORE shade A3

1 x 50 g cartridge
+ 25 mixing tips
+ 25 intra-oral tips DCA3-50

PROTOCOL



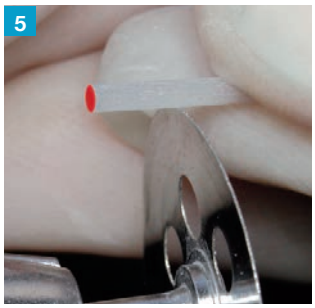
Select the appropriate glass-fiber post and matching drill.



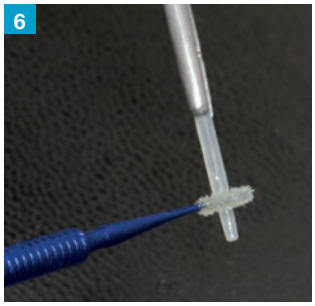
Prepare the canal with a Gates or a Largo drill.

Prepare the canal with the calibrated cylindro-conical drill

Try the glass-fiber post for size



The post is cut perpendicularly with a disc or a cutting plier. Store the post in alcohol until bonding



Apply the mixture to the glass-fiber post and dry carefully

Coat the post with DENTOCORE Body, then inject DENTOCORE Body into the canal. Inject the same composite in a matrix in order to create a shape

The matrix is removed and the shape is made

REFLECTYS

Anterior and posterior universal composite

4g syringe
or 0.25g capsules

Restoration Kit

Stratification kit

ADVANTAGES

- **True mimesis** : true reflection of natural teeth
- **Remarkable mechanical properties:** : optimal resistance to abrasion, compression and fracture
- No post-operative sensitivity
- **Invisible restoration**, perfect integration of the composite. Invisible joints.
- **Exceptional aesthetic quality** after polishing
- Optimized composition: microhybrid composite with integrated nano fillers
- **Easy to handle:** does not stick to instruments & gloves. Quick to sculpt, easy to polish.
- **For simple cases and complicated clinical situations:** stratification possible
- **Low polymerisation shrinkage:** better marginal adaptation
- Light-curing
- **17 shades available**

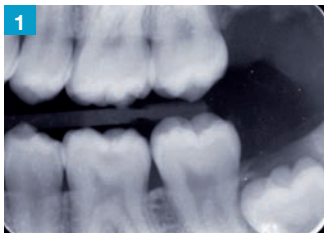
INDICATIONS

Restoration of both posterior teeth with important mastication contraints and anterior teeth which need a high-level aesthetic finish

- All classes (I to V)
- Shape and colour corrections
- Fractured teeth
- Restoration of milk teeth.

PROTOCOL

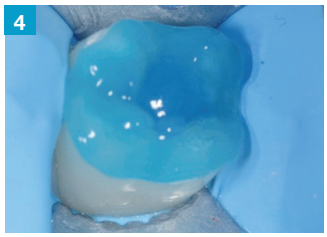
Dr Marco Morello case



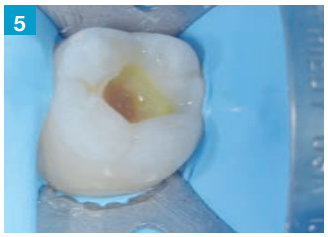
Cavity X-ray on the 36

Initial situation before treatment. Occlusal cavity on the first left lower molar

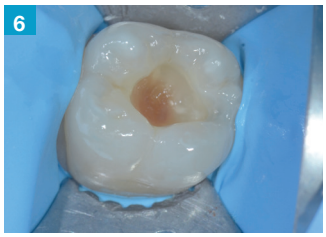
Treatment of the cavity



Etching in the enamel for 30 sec and on the dentine with DENTOETCH for 15 sec

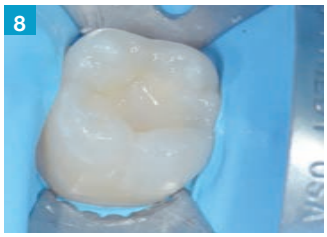


Rinse for 15 sec and dry the cavity until the surface appears white and chalky

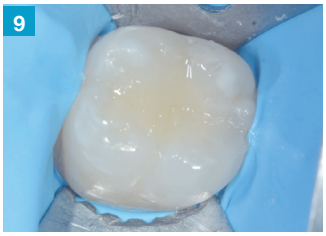


Application of the bonding IPERBOND ULTRA for 20 sec. Then soft air spray for 5 sec. Repeat the operation a second time. Light-curing for 20 sec + 20 sec

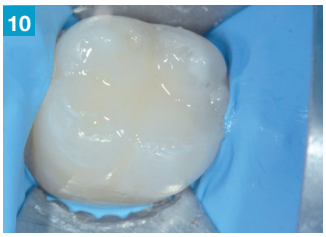
Application of a thin layer of IONOCEM (Ionomer cement): sandwich technique



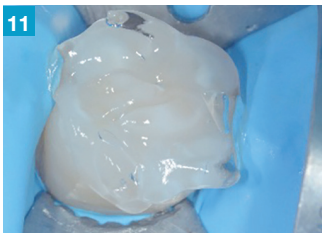
Application of a layer of REFLECTYS Flow A3. Light-curing for 20 sec



Two application of REFLECTYS shade A2. Light-curing during 20 sec each time



Application of REFLECTYS Enamel shade in thin layer. Light-curing for 20 sec



Glycerin layer and light-curing for 20 sec

Result after treatment and complete rehydration

References

	1 syringe (4 g) + 1 spatula	20 caps (0.25 g)
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
Shade for stratification		
Email	SRTYS-E	CPTYS-E
Incisal	SRTYS-I	CPTYS-I
Pedo	SRTYS-P	CPTYS-P
Opaque A2	SRTYS-A2O	CPTYS-A2O
Opaque A3	SRTYS-A3O	CPTYS-A3O
Bleach	SRTYS-BLC	CPTYS-BLC

Technical data

Layer - Advised curing time 20s (LED)	2.95 mm
Compressive strength	307 MPa
Flexural strength	164 MPa
Film thickness	8.2 µm
Absorption	23.1 µg/mm3
Water solubility	39.3 µg/mm3
Shrinkage rate	2.20 %
Radiopacity	220 %

REFLECTYS Kits

Restoration kit: for everyday restorations
4 REFLECTYS syringes (A2, A3, A3.5, B2)
+ 1 bonding IPERBOND MAX KTYS-4.1B

Stratification kit: for the most delicate and aesthetic cases
7 REFLECTYS syringes (A1, A2, A3, Opaque A2, Opaque A3, Enamel, Incisal) + 1 bonding IPERBOND MAX +1 etching gel DENTOETCH KTYS-7.2BE

REFLECTYS FLOW

Universal fluid composite

IDEAL FOR HARD TO ACCESS AREAS

ADVANTAGES

- **Flows perfectly under pressure but stays in the cavity**
- **High aesthetic result:** easy to polish, durable sheen, long-lasting shade
- **Radiopaque**
- **Excellent thixotropy:** : flows perfectly under pressure but stays in the cavity
- Contains fluorides
- Low polymerisation shrinkage
- Light-curing
- The sheen of natural teeth

INDICATIONS

- Filling of minor invasive treatments with or without carious lesions
- Surface fillings of Class I, III and V
- Sandwich technique combines layers of high viscosity composite materials
- Marginal repairs to current composite fillings or inlays
- Cementation of retainers
- Reinforcement of teeth after traumatic event or with weakened periodontium

HINTS & TIPS

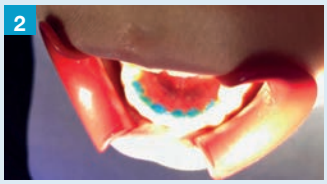
Ensure a better seal during the placing of a composite!

After filling undercut areas with the Flow, insert a layer of non-polymerised flow composite before starting the setting process. When the composite is tamped, the flow will rise up the tooth.

FIXING A BRACE

Dr Dante Martin Estrada Suarez case

Initial view



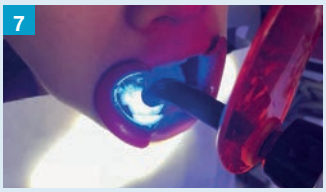
Etching

Bonding application

Light-curing

Splint set up

REFLECTYS Flow application



Light-curing

Final view

References

2g 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 - Advised curing time 20 sec (LED)	2.5 mm
Depth of curve	2.54 mm
Compressive strength	250 MPa
Flexural strength	120 MPa
Shrinkage rate	3.70%

POLISH HD

One-step composite polishers

Cup

Ideal for cusp slopes of posterior teeth, proximal line angle areas and on lingual and palatal surfaces of anterior restoration

NEW SHAPE

Brush

Designed to achieve quality results on the occlusal surface. The twisted bristles reach into the pits and fissures

Flame

Ideal for the cervical area and the occlusal grooves

Disc

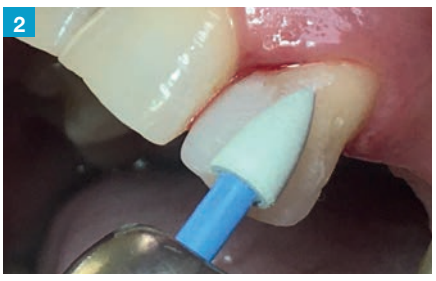
Ideal on incisors, large fi lling surfaces, incisal edges and inter-proximal areas

ADVANTAGES

- **One-step polishers** for a quick and effortless polishing
- High efficiency for an aesthetic result and a **natural shine finish**
- **No polishing paste** is required

PROTOCOL

Before



Polishing

After

References

12 flame-shaped set.....PLFLAM-12
12 cup-shaped set PLCUP-12
12 disc-shaped set.....PLLENS-12
12 brush-shaped set PLBRUSH-12

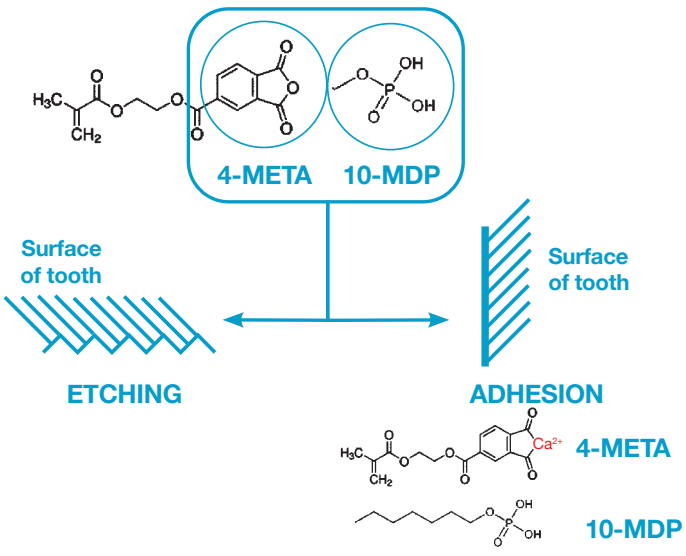
6 polisher set
(x2, x2, x2) PLASSORT-6
20 polisher set
(x5, x5, x5, x5) PLASSORT-20

IPERBOND MAX

Universal adhesive

SES POINTS FORTS

- **Universal adhesive:** etching, primer and bonding in one bottle
- **Light-curing in just 10 seconds:** fast, simple and reliable
- Incorporates 10-MDP monomer: high bonding strength on both enamel and dentin
- Optimized viscosity and high thixotropy: adhesion via a homogeneous layer without excess
- Freedom in the choice of protocol: E&R (etching-rinsing) or SE (self-etching system) techniques
- **Stable material over time** - does not require storage in the refrigerator
- Gentle etching, which reduces the risk of hyper-sensitivity (2> pH> 2.5)



INDICATIONS

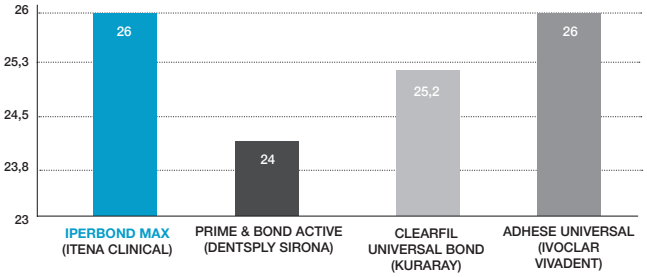
- Direct, light-cured composite restorations onto natural teeth
- Indirect restorations made from composite and ceramics (inlays, onlays, veneers, crowns) with light-cured and dual-cured luting composites (although always light-cured)
- Repairs to fractured restorations

IPERBOND MAX is compatible with all conventional light-cured composite materials

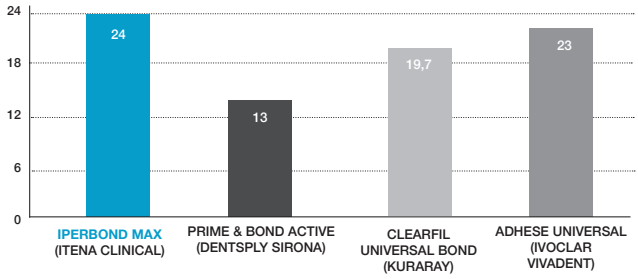
Technical data

Surface	Shear bond strength (ISO 29022:2013)
Dentine	2,5 mm
Enamel.	254 mm
Zirconia + sandblasting	250 MPa
Lithium disilicate + etching + silane (prepared surface)	120 MPa

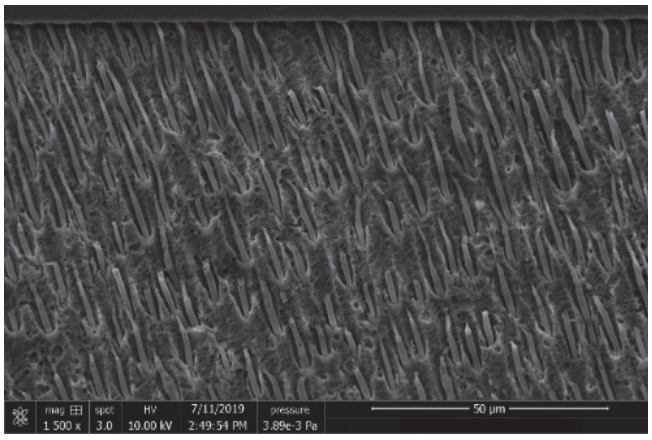
Shear bond strength to dentine (MPa)



Shear bond strength to enamel (MPa)



IPERBOND MAX presents a level of shear bond strength equivalent (dentine), or even superior (enamel), to competing products.
Adhesion provided by its formulation with the acidic monomers 4-META and 10-MDP, which act as powerful structural agents to ensure a tenacious bond to both dentin and enamel.



Observation with scanning electron microscope Formation of tags of IPERBOND MAX on dentine (section x1500)(1)

Reference

IPERBOND MAX 5 ml bottle IBONDMAX5

(1) Internal test report from ITENA Clinical R&D department.

QUICKBOND

2 step self-etching bonding system (SAM2)

ADVANTAGES

- 2 step self-etching bonding system comprising an acidic water-based self-etching primer and a light-cured adhesive
- Delivers **high bonding values to both dentine and enamel**
- Dissolves the smear layer, penetrates the tubules and peritubular dentine, forms resin tags
- If applied to enamel, **the Primer leaves an extensive area of micro-porosities**, leading to improved enamel bondinge
- **No post-operative sensitivity**
- **Can be used with the Itena BOND ACTIVATOR,** to make the bonding agent self-curing. Ideal for areas which are unreachable with a LED curing unit

INDICATIONS

- **Composite restorations** with direct technique
- **Bonding of all filling materials**, dual-core build-up, compomers, resin cements, crowns, bridges, inlays and onlays
- **Large posteriors restorations** using DENTOETCH to etch the uneven margins (p. 33)

References

QUICKBOND Kit

10 ml of Prime "A", 10 ml of Bond "B"
+ 1 mixing pad
+ 70 conical micro-applicators.....DBQAK

QUICKBOND PRIME «A»

10 ml bottle DBQAP-10

QUICKBOND BOND «B»

10 ml bottle DBQAB-10

Micro-applicators

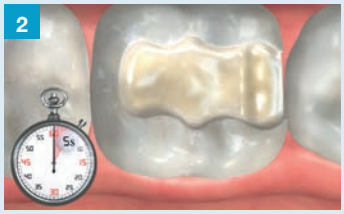
White conical AFB-100
Spherical green ASV-100

BOND ACTIVATOR

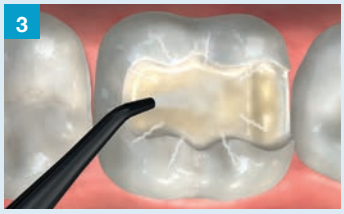
Chemical activator for QuickBond

PROTOCOL

Apply 3 successive layers of QUICKBOND PRIME on the tooth surface



Let stand for 5 sec

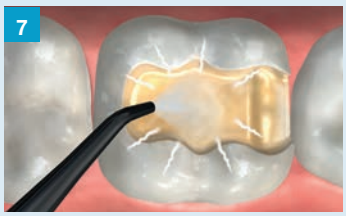


Remove solvents with a gentle spray of air

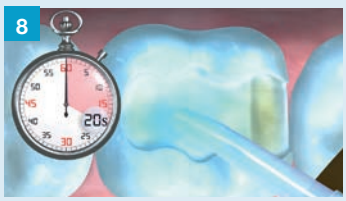
Air-dry strongly

Apply 2 successive coats of QUICKBOND BOND

Remove solvents with a gentle spray of air



Air-dry strongly



Light-cure for 20 sec

For the bonding of self-curing or dual composites or for areas which are unreachable with a LED curing unit, combine equal drops of BOND ACTIVATOR with QUICKBOND BOND on a mixing pad, mix for 2 sec and proceed with steps 5, 6 and 7

ADVANTAGES

- Ideal for areas which are unreachable with a LED curing unit
- deal for glass-fiber post bonding

Ideal for the cementation of NUMERYS GF post-and-core

References

BOND ACTIVATOR

Bottle of 7 ml DBAC-7

C-RAM BOOSTER

Primer for ceramics

ADVANTAGES

- Repair of metal-ceramic or ceramic crowns, veneers, inlays - onlays in ceramic
- **Primer for all ceramic surfaces**
- No sandblasting, no etching needed
- Considerably improves adhesion between ceramic surfaces and resin materials
- Ideal surface coverage

INDICATIONS

- Preparation of ceramic crowns, veneers and inlays prior to cementation
- Preparation of fractured ceramic restorations for repair with resin material

PROTOCOL

1 Pre-operative view of a fractured ceramics bridge

2 Clean the surface with alcohol or acetone and dry

Brush & alcohol + 20 sec

3 Open the C-RAM BOOSTER bottle and put 1 or 2 drops on a mixing pad. Close the bottle immediately.

4 Apply C-RAM BOOSTER generously to the ceramic surfaces using a micro-brush

Brush & C-RAM BOOSTER

5 Wait 2 min and air-dry

20s

6 **OPTION :** For complex fractures, apply our adhesive IPERBOND MAX

7 Repair the bridge with our composite REFLECTYS

8 Post-operative view of the repaired bridge

References

5 ml Bottle CRAMBST5

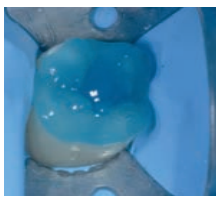
DENTOETCH

37% phosphoric acid etching gel

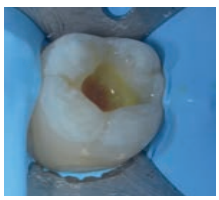
ADVANTAGES

- **Perfect consistency:** not too viscous, not too liquid
- Stays in place, does not leak
- **Washes off quickly and easily**
- **Economic packaging** with filling syringes
- **Easy-to-use syringe with disposable tips**

Initial view



DENTOETCH Application



Result of etching

References

Etching gel

4 x 1.2 ml syringes + 8 needle tips DE-4.12
1 x 50 ml syringe + 5 empty 1.2 ml syringes
+ 20 needle tips ..... DETCH-VP

DENTOETCH tips

20 needle tips DEA-20

SILAN-IT

Silane

ADVANTAGES

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

INDICATIONS

Cross-linking agent used to improve adhesion

References

5 ml Bottle ..... SILAN-IT

CERAM-ETCH

9% buffered hydrofluoric acid gel

ADVANTAGES

- Stays in place
- Etching ceramics of all types to make a micro-porous surface which gives a strong mechanical interlock with composite resin materials

INDICATIONS

- Preparation of fractured ceramics or metal ceramics
- Preparation of ceramic crowns, veneers and inlay surfaces prior to cementation

Technical data

Hydrofluoric acid	9%
Water	90%
Thickening agent	1%

References

2 x 1.2 ml syringes + 4 tips	CRAM-ETCH

YOUR CEMENTATION GUIDE BY MATERIAL

Cement on ceramics	Cement on zirconia/alumine	Cement on metal
MECHANICAL LOW RETENTION **PROSTHETIC ELEMENT PREPARATION** Etching + Primer + Cement **C-RAM BOOSTER + DENTOCEM OR TOTAL C-RAM** **TOOTH PREPARATION** Etching + Primer + Adhesive **QUICKBOND OR IPERBOND MAX**	**MECHANICAL LOW RETENTION** **PROSTHETIC ELEMENT PREPARATION** Tribochemical blasting + Primer + Cement **Sanblasting product + C-RAM BOOSTER + DENTOCEM** **TOOTH PREPARATION** Etching + Primer + Adhesive **QUICKBOND OR IPERBOND MAX**	**MECHANICAL LOW RETENTION** **PROSTHETIC ELEMENT PREPARATION** Tribochemical blasting + Primer + Cement **Sanblasting product + IPERBOND MAX + DENTOCEM** **TOOTH PREPARATION** Etching + Primer + Adhesive **QUICKBOND OR IPERBOND MAX**
MECHANICAL MEDIUM RETENTION **PROSTHETIC ELEMENT PREPARATION** Etching + Primer + Cement **C-RAM BOOSTER + DENTOCEM OR TOTAL C-RAM** **TOOTH PREPARATION** Etching + Primer + Adhesive **QUICKBOND OR IPERBOND MAX**	**MECHANICAL MEDIUM RETENTION** **PROSTHETIC ELEMENT PREPARATION** Etching + Primer + Cement **C-RAM BOOSTER + DENTOCEM OR TOTAL C-RAM** **TOOTH PREPARATION** Etching + Primer + Adhesive **QUICKBOND OR IPERBOND MAX**	**MECHANICAL MEDIUM RETENTION** **PROSTHETIC ELEMENT PREPARATION** Primer + Cement **IPERBOND MAX + DENTOCEM OR TOTALCEM** **TOOTH PREPARATION** Etching + Primer + Adhesive **QUICKBOND OR IPERBOND MAX**
MECHANICAL HIGH RETENTION **PROSTHETIC ELEMENT PREPARATION** Cement **TOTAL C-RAM** **TOOTH PREPARATION** No surface preparation	**MECHANICAL HIGH RETENTION** **PROSTHETIC ELEMENT PREPARATION** Cement **TOTAL C-RAM** **TOOTH PREPARATION** No surface preparation	**MECHANICAL HIGH RETENTION** **PROSTHETIC ELEMENT PREPARATION** Cement **TOTAL C-RAM** **TOOTH PREPARATION** No adhesive preparation

YOUR CEMENTATION GUIDE

QUICK BOND

2-step self-adhesive

- 2-step bonding system: 1 self-etching primer and 1 light-curing bonding agent
- Excellent and reliable adhesion to enamel and dentine
- Think about Bond Activator for areas which are unreachable with a LED curing unit

IPERBOND MAX

Universal adhesive

- Universal adhesive: etching, primer and bonding in one bottle
- Incorporates 10-MDP monomer: high bonding strength on both enamel and dentin
- Optimized viscosity and high thixotropy: adhesion via a homogeneous layer without excess
- Light-curing in just 10 seconds
- Freedom in the choice of protocol: E&R (etching-rinsing) or SE (self-etching system) techniques

TOTAL C-RAM

Self-etching and self-adhesive cement

- Formulated for ceramics and zirconia elements
- Dual cure

DENTOCEM

Cement without adhesive properties

- Use on all substrates (metal, ceramics, zirconia) with prior preparation
- Dual cure

TOTALCEM

Self-etching and self-adhesive cement

- Formulated for metal elements
- Dual cure

C-RAM BOOSTER

Primer for ceramics and zirconia

- No etching needed
- Increase the adhesion between resin and ceramics materials

PROVITEMP

Short term temporary cement

ADVANTAGES

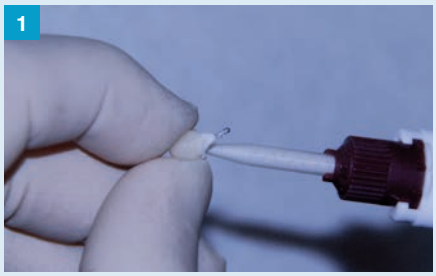
- **Easy to use**
- **Very competitive price** for an automix syringe
- **Eugenol free**. Resin-based formula for a better compatibility with permanent cement
- **Resistant to deformation** from chewing
- Perfectly **watertight cementation**
- **Dentine shade** for a perfect aesthetic result
- **Contains fluorides**
- Radiopaque
- Easy excess removal, no residues
- **Very easy clean-up** of the temporary prosthesis after removal

INDICATIONS

Temporary cement for

- Crowns & bridges
- Inlays & onlays
- Temporary trials of permanent restorations

PROTOCOL



Inject PROVITEMP into the temporary restoration: Working time 1.5-3.5 mins

Set the restoration and hold firmly in place. Initial gel setting occurs between 1.5-2 min after placement

Remove excesses.
Final setting: 3 to 4 minutes

References

PROVITEMP Automix

5 ml syringe + 10 mixing tips PTEMP1-10

DENTOTEMP

Long term temporary cement designed for implants

Manual syringes

ADVANTAGES

- **Eugenol free.** No interference with permanent cements
- High bonding strength, but **easy removal**
- Leaves **perfectly healthy gingiva** after removal of the temporary crown
- It comes off in one block without leaving debris when the temporary crown or prosthesis is removed. Huge time saving compared with other cements
- **Rebasing and cementation in one stage**
- Can be used on **living teeth**
- **Thin film** (10 µm): high aesthetic result
- Radiopaque

INDICATIONS

- **For temporary cementation** in case of:
- A small retention area
- A long-term trial
- **Permanent cementation** of implant-retained crowns

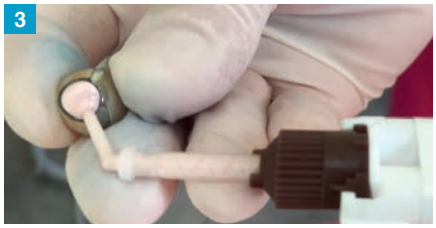
HINTS & TIPS

- *DENTOTEMP can be mixed with a small amount of vaseline to reduce its retentive properties*
- *A Furrer plier is particulary well suited for the removal of temporary elements*
- *DENTOTEMP binds to the inside of the temporary crown.*
- *Resealing the temporary element is easy with the addition of extra DENTOTEMP*
- *For a temporary cementation on a composite restored tooth, isolate the core*

CLINICAL CASE

Initial view

Insert Teflon to isolate the screw head before the crown is put in place



Inject into intrados

Exert pressure on the crown

Remove excesses

Final view

References

DENTOTEMP automix intro kit

5 ml syringe + 5 mixing tips DTCA1-5

DENTOTEMP manual

2x10ml syringes (base+catalyst)
+ 10 spatulas + 1 mixing pad DT-2.10

DENTOTEMP automix

2 x 5 ml syringe + 20 mixing tips DTCA2-20

DENTOTEMP automix Value Pack

4 x 5 ml syringe + 40 mixing tips DTCA4-VP

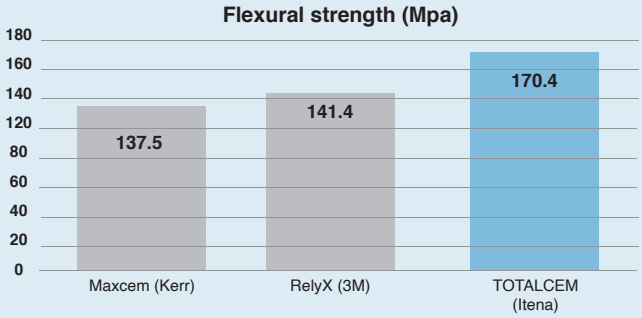
TOTALCEM

Self-etching and self-adhesive permanent resin cement

Special for metal

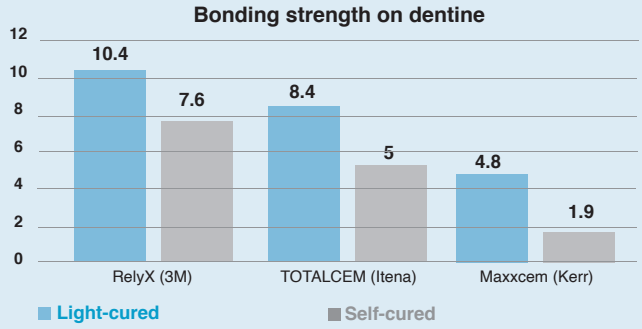
ADVANTAGES

- **All in one:** Etching + Bonding + Cement
- Dual cure (Light- or self-cure)
- Guaranteed curing in areas with limited light penetration
- Optimised gel state for easy removal of excess: simply cure for 3-4s
- **Not soluble in oral fluids**
- Perfect seal
- Can be used on living teeth
- Long term shade stability
- Refrigerate for longer shelf life



INDICATIONS

- **For cementation of:** crowns, bridges, posts, inlays & onlays
- **Self-adhesive on:** enamel, dentine, metal



References

TOTALCEM translucent

Syringe of 8g + 10 mixing tips + 10 fine intra-oral tips + 10 extra-fine intra-oral tips.....TTLCEM-TR

TOTALCEM A2 universel

Syringe of 8g + 10 mixing tips + 10 fine intra-oral tips + 10 extra-fine intra-oral tips.....TTLCEM-A2

TOTALCEM TR - Value Pack

3 Translucent syringes of 8g + 30 mixing tips + 30 fine intra-oral tips + 30 extra-fine intra-oral tips.....TCEM3-VPTR

TOTALCEM A2 - Value Pack

3 A2 syringes of 8g 30 mixing tips + 30 fine intra-oral tips + 30 extra-fine intra-oral tips.....TCEM3-VPA2

Technical data

Compressive strength:	180 MPa
Water sorption:	12 µg/mm3
Solubility:	7 µg/mm3
Film thickness:	10 µm
Radiopacity, % Aluminium:	250
Fluor release (cumulative on 14 days):	589 ppm
Working time:	1.5 to 3.5 min
Setting time:	2.5 to 4.5 min
Compatible with all lamps:	Yes

TOTAL C-RAM

Self-etching and self-adhesive permanent resin cement
Special for ceramics

ADVANTAGES

- **All in one:** Etching + primer + bonding + cement
- Exceptional bonding strength
- Dual curing (light- or self-cure)
- Optimised gel state for delete easy excess removal: simply cure 2s
- Recommended for **cementation of veneers** thanks to the extremely thin film (10 µm)
- Not soluble in oral fluids
- Perfect seal
- Radiopaque 250% Al
- Can be used on living teeth
- Long term shade stability
- Refrigerate for longer shelf life

INDICATIONS

- **Cementation of:** crowns, bridges, inlays, onlays, veneers, posts
- **Self-adhesive** on enamel, dentin, metal, ceramics, zirconia, porcelaine

A choice of 3 shades to meet the needs of all clinical cases:

Opaque-dentin
Similar to the dentin color with opacity properties for optimal coverage

Translucent
Very high translucency for a cementation without any shading effect on the restoration

White
Has opaque properties and is designed for veneers. Also recommended for covering up grey metallic parts, e.g., under the crown

References

TOTAL C-RAM translucent
8 g Automix syringe translucent + 10 mixing tips + 10 fine intra-oral tips + 10 extra-fine intra-oral tips ..... TTCRAM-TR

TOTAL C-RAM opaque
8 g Automix syringe opaque + 10 mixing tips + 10 fine intra-oral tips + 10 extra-fine intra-oral tips..... TTCRAM-OD

TOTAL C-RAM white
8 g Automix syringe white + 10 mixing tips + 10 fine intra-oral tips + 10 extra-fine intra-oral tips..... TTCRAM-BLC

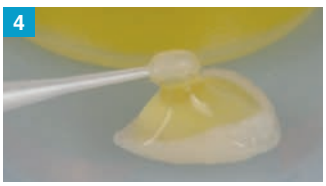
PROTOCOL

Dr Pascal Zyman case

Initial view

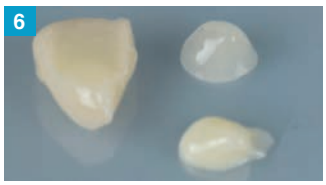
Wax up

Realisation of lithium disilicate veneers



Application of hydrofluoric acid for 20 sec then rinse

Application of silane (SILAN-IT)



Application of TOTALC-RAM opaque-dentine shade on cervical and median zones and translucent shade on incisal merge

Final view

DENTOCEM

Permanent resin cement

ADVANTAGES

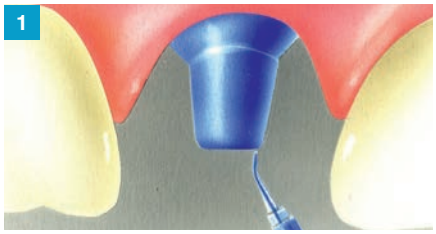
- **No initial expansion** - Superior retention and total margin integrity
- Film thickness gives a perfect aesthetic result
- **Dual cure (self and light-curing)**
- Ideal for areas which are unreachable with the LED curing unit
- Cement has a rubbery phase to allow removal of excess material
- **Radiopaque** (250 % Al)

INDICATIONS

- Crowns, bridges, inlays, onlays, posts, ceramic crowns & Maryland bridges
- Ceramics or metallic orthodontic attachments
- Use on all substrates

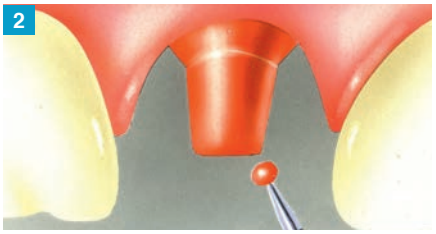
PROTOCOL

1



(Optionnal) Etch the tooth for 5-10 sec. Rinse and dry.

2

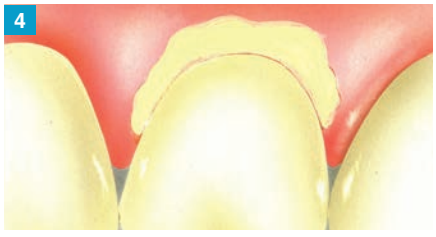


Apply the adhesive and its activator for 20 sec. Dry for 5 sec (if prior etching was carried out, re-apply a second coat for 5 sec), then dry for 5 sec. Light-cure for 20 sec

3

Apply a thin layer of DENTOCEM directly into the restoration

4



Set the restoration in place. Briefly light-cure for 3-4 sec. The excess cement, having taken on a rubbery consistency, can be easily removed with a probe

5

For self-curing, the setting time is between 2min30 and 4 min 30

References

DENTOCEM

2 x 5ml syringes + 10 mixing tips

+ 10 extra-fine intra-oral tips..... DCA-2.5

OBTURYS

Permanent root canal cement

Setting time:
between 18 and 24 hours

Available in two formats:
- Automix
- Handmix

ADVANTAGES

- **Ideal consistency** for easy placement and excellent support around gutta percha points
- Perfect sealing for successful clinical cases
- **Easy to remove any excess**
- Easier reinterventions because the material is not as dense, but still as resistant
- **Excellent user comfort**

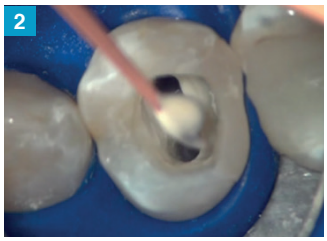
Impossible to mix up the components!

INDICATIONS

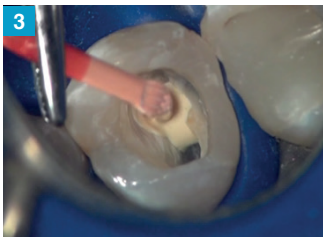
Permanent sealing of root canals, for use with gutta-percha points

PROTOCOL

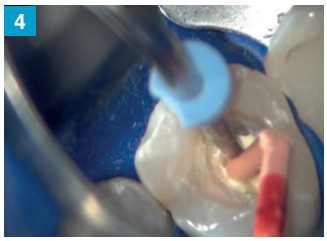
Initial radiography



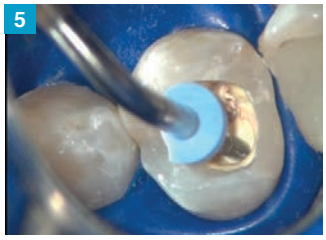
Cover the apical third of the gutta percha point with OBTURYS



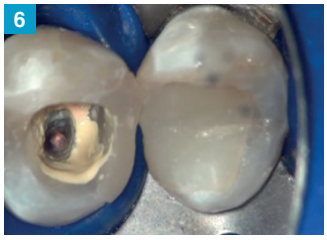
Cover the inside of the root canal with OBTURYS using the gutta percha. Make vertical movements



Using the probe, cut the excessive gutta percha outside the canal

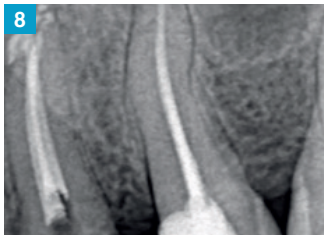


Hot vertical condensation of the gutta percha



Obturation of the apical third

Filling two thirds of the coronal section with the hot gutta by injection



Final X-ray. Thorough inspection

References

Handmix

Handmix syringe 5 ml + 1 manual adapter + 10 mixing spatulas + 1 mixing pad OBHM1-5

Automix

Automix syringe 5 ml + 10 mixing tips + 10 intra-oral tips + 1 mixing pad OBAX1-5

MTA BIOREP

Bioceramic reparative cement

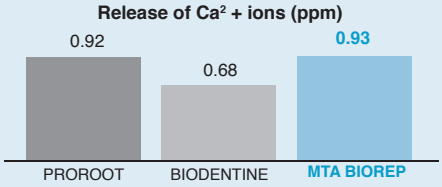
ADVANTAGES

- Bioceramic reparative cement with MTA
- **Fast setting time - 15 minutes:** treatment in only one session
- Made with calcium tungstate: **does not cause root or crown staining and discoloration**
- **Excellent marginal sealing** ability through a controlled setting expansion, which hinders the migration of microorganisms and fluids into the root canal.
- Ideal in cases of pulp capping: induction of a dentine shield formation when used on pulp exposures
- MTA BIOREP can be used in a wet environment without alteration of its properties.

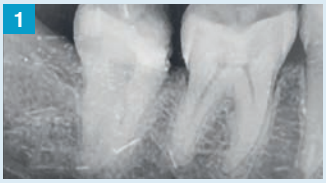
INDICATIONS

- Repair cement to be used before root canal filling.
- Ideal in cases of pulp capping on permanent teeth, canal perforation, pulpotomy, internal resorption and apexification.

2 mixing modes: manual or automatic.

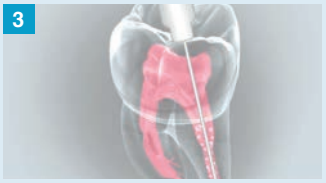


PROTOCOL



Check pulp vitality and take a pre-operative X-ray to check for absence of peri-apical lesions and for good radicular structure

Set up an operating field (dental dam): the tooth must be isolated in order to prevent any contamination

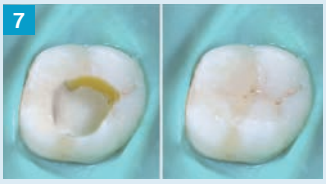


Rinse the cavity with a non-irritant sterile solution and dry gently

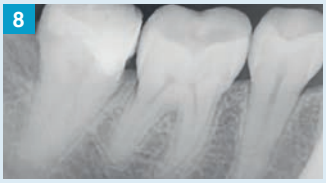
Mix the MTA powder with the liquid, following the instructions for mixing (manual or mechanical)

Cover the exposure site with MTA Biorep using an amalgam gland

Wait 15 minutes for the MTA Biorep to set



Place a waterproof restoration on the MTA BIOREP to avoid any bacterial contamination



Final X-ray

References

MTA BIOREP

Bioceramic root canal repair cement 2 caps. MTA-BRP2.2

Bioceramic root canal repair cement 5 caps MTA-BRP5.5

Follow up after 3 months to check pulp vitality; then, if everything is going well, see the patient again in a year to confirm that the treatment is effective.

MTA BIOSEAL

Endodontic root canal sealer

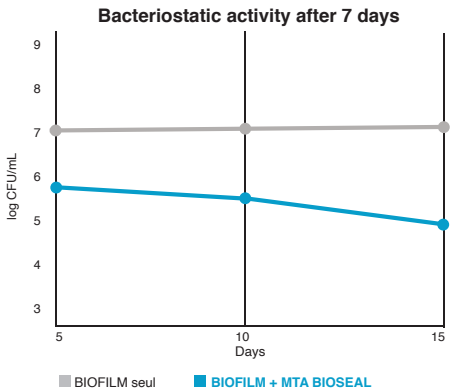
ADVANTAGES

- **Homogeneous penetration** of product in tubules
- Prevention of bacteria proliferation
- Perfect sealing
- Decreased working time
- Easy insertion into the root canals
- Does not discolour teeth

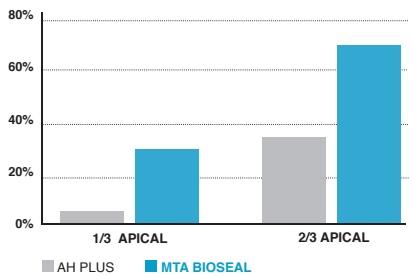
INDICATIONS

MTA Bioseal is an endodontic root canal sealer based on Mineral Trioxide Aggregate. It is a double paste component material that allows complete fillng of all root canals including accessory and lateral ones.

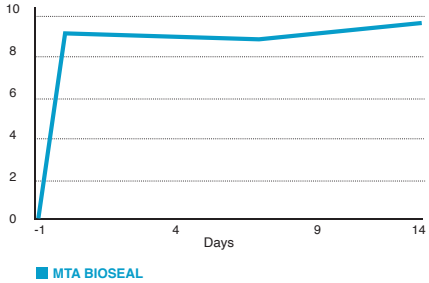
Bacteriostatic



Percentage of impregnated dentine



Calcium release (ppm)



Reference

MTA BIOSEAL

MTA BIOSEAL syringe (4 g) + 10 mixing tips
+ 1 mixing pad..... MTA-BSEAL

HYDROSPEED HD

High precision silicon impression material

Simple and fast extrusion with the cartridge

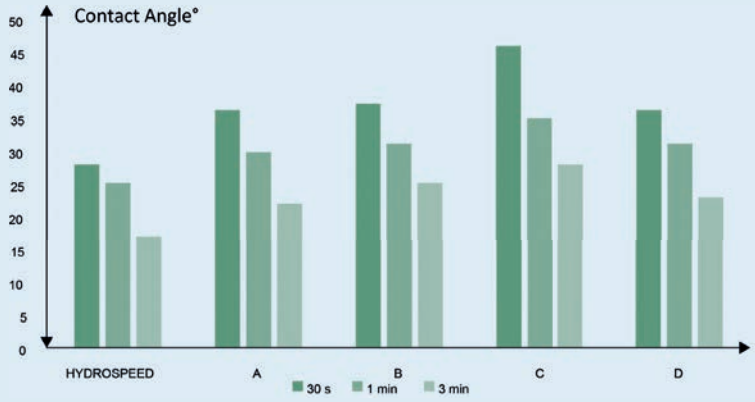
ADVANTAGES

- **High resistance to tearing**
- Exceptional elastic properties creating a high resistance for detachment
- Designed to exceed the mechanical constraints (sulcus)
- **Excellent hydrophilic nature**
- Ultra-precise recording of details in a humid environment
- **Bubble-free paste**
- **High thixotropy**

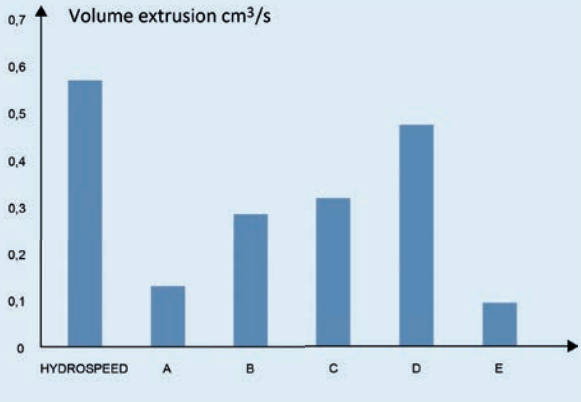
INDICATIONS

- VPS Silicone for high precision impression
- Compatible with all impression techniques (1-step technique or 2-step technique)

Wettability performance



Extrusion volume



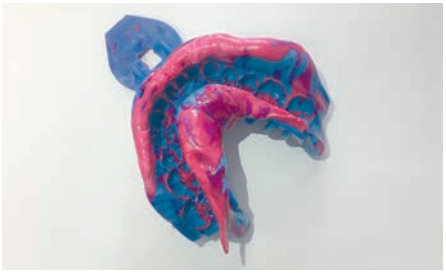
ICON SYSTEM FOR EASY IDENTIFICATION OF THE PRODUCTS:

Mixing type

Hardness

Intra-oral time

IMPRESSION CASE



References

	Product	Ref.	Mixing type	Viscosity	Setting time	Working time (23°C)	Setting time (37°C)
Light (wash material)	**HYDROSPEED**HD Light Body	HYD-BL	**Cartridge** Gun	Light	Normal	02:15	02:30
	HYDROSPEEDHD Light Body Quick	HYD-BLQ	**Cartridge** Gunt	Light	Fast	01:15	01:45
	HYDROSPEEDHD Regular Body	HYD-BR	**Cartridge** Gun	Regular	Normal	02:15	02:30
	HYDROSPEEDHD Regular Body Quick	HYD-BQR	**Cartridge** Gun	Regular	Fast	01:15	01:45
Monophase material	**HYDROSPEED**HD Magnum Body Heavy	HYDM-BH	**Magnum** Machine	Heavy	Normal	02:30	02:30
	HYDROSPEEDHD Magnum Body Heavy Quick	HYDM-BHQ	**Magnum** Machine	Heavy	Fast	01:30	01:45
Putty (Tray Material)	**HYDROSPEED**HD Putty Soft	HYD-PS	**Pots** Handmix	Soft	Normal	02:00	02:30
	HYDROSPEEDHD Putty Soft Quick	HYD-PSQ	**Pots** Handmix	Soft	Fast	01:15	01:45
	HYDROSPEEDHD Putty Hard	HYD-PH	**Pots** Handmix	Hard	Normal	02:00	02:30
	HYDROSPEEDHD Putty Hard Quick	HYD-PHQ	**Pots** Handmix	Hard	Fast	01:15	01:45
	HYDROSPEEDHD Magnum Putty Hard	HYDM-PH	**Magnum** Machine	Hard	Normal	02:00	02:30
	HYDROSPEEDHD Putty Hard Quick	HYDM-PHQ	**Magnum** Machine	Hard	Fast	01:15	01:45

Tips for application of light impression materials

Intraoral mouthpiece to attach to the mixing tip

Fits all magnum references

References

Accessories

1 50 yellow ECO mixing tips HY-TY50
2 100 yellow intra-oral tips HY-TY100
3 50 yellow mixing canulas + clamping rings HYM-TY50

HYDROSPEED HD

Bite registration

ADVANTAGES

- Bubble-free
- Shore A Hardness: 90 A
- **Total setting time: 1 min 40**
- Thixotropic / does not flow
- Both flexible and rigid

Brush tip to fix on the mixing tip

Tips for bite registration

- *Homogeneous two-component mixture*

References

Bite registration: 2 x 1:1 / 50 ml + 6 mixing tips
+ 6 intra-oral tips ..... HYD -REG

Accessories

1 Mixing gun 50 ml 1:1 / 2:1 ..... HY-GSII
2 100 transparent intra-oral tips for bite registration HY-TG100
3 50 green ECO mixing tips HY-TG50

CHROMASPEED

High precision chromatic alginate

ADVANTAGES

- Only **30 seconds in mouth**
- High **dimensional stability**
- Mint or strawberry flavor. **No excess salivation**
- **High precision**
- Recommended for orthodontics
- Optimized elasticity for removal **without deformation**
- Recommended for general **dental practitioners**

INDICATIONS

Alginate for:
- general dental practitioners: **CHROMASPEED HD**
- orthodontists: **CHROMASPEED ORTHO**

Specific colour for each work step
Clear and easy to use

Optimum mix | **Mouth contact** | **Removal**
Green: ortho / Yellow: HD

Only 30 seconds in mouth

References

CHROMASPEED ORTHO - 500 g bag
+ measurement kit ..... CHSP-O

CHROMASPEED HD - 500 g bag
+ measurement kit ..... CHSP-HD

TRAXODENT

Haemostatic gingival retraction paste

PATENTED FORMULA

Ergonomic syringe
0.7g (5 applications on average)

Resealable foil pouches
The paste does not dry out and keeps extremely well

ADVANTAGES

- **Fast and effective retraction in 2 minutes**
  The chemio-mechanical expansion of TRAXODENT allows tissue displacement on contact with air
- Paste with a malleable consistency
- **Very easy and quick to apply, rinse off and clean**
- **Optimised haemostatis**
  Use of TRAXODENT stops bleeding through compression whilst absorbing gingival fluid
- **Swivel and adaptable tips**
  Injection angle easily determined

INDICATIONS

Use before:
- Taking an impression
- Clinical procedure requiring haemostasis or gingival deflection

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

References

TRAXODENT Packs	
2 syringes (0.7 g each) + 6 needle tips	TRASTRT-2
7 syringes (0.7 g each) + 15 needle tips	TRABOI-7
25 syringes (0.7 g each) + 50 needle tips	TRAPACK-25
Tips refill	
20 needle tips	TRAEMB-20
60 needle tips	TRAEMB-60

CARE & PREVENTION

KLIRICH® PRO

Periodontal Gel

ADVANTAGES

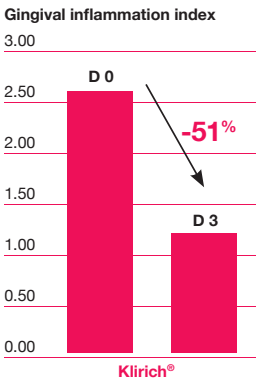
- **Unique combination of natural ingredients with exceptional properties:** helps fight inflammations and stimulates healing.
- **Film-forming texture:** keeps the product in the oral cavity
- Relieves pain quickly
- No discomfort during or after use (does not sting)
- **Reduces bleeding gums**
- Maintains the pH balance of the mouth
- **Helps relieve sensitive gums**

INDICATIONS

Patented oral gel made in France from natural ingredients. Klirich® Pro and Klirich® can **address most of the problems of the oral cavity and gums.**
This gel is intended to be applied in adults' oral cavities to fight inflammatory conditions such as gingivitis, bleeding, gingival recessions and gingival pockets. It is particularly recommended in cases of mucositis, ulceration, flap surgery (implants) and post-scaling.

Technical data

KLIRICH® gel relieves pain, decongests and cleanses the gum. Thanks to its film-forming texture, it creates a moist and warm film that relieves pain associated with sensitive gums.
Its herbal formulation creates an ideal synergy to reduce oral diseases:
- alchemilla flower extract
- calendula flower extract
- hyaluronic acid
- avocado oil
- clove essential oil
- grapefruit seed extracts



References

KLIRICH® PRO

2 syringes of KLIRICH Pro (3 ml) + 12 single use gingival applicator tips.....KKLIRC2S

KLIRICH®

Pack of 3ml tubes of KLIRICH® gel (x20) KLIR-T20

Tips

20 bent periodontal tips KLE-PR20

Papilla inflammation Day 1

Papilla inflammation Day 2

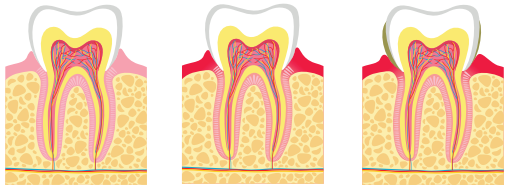
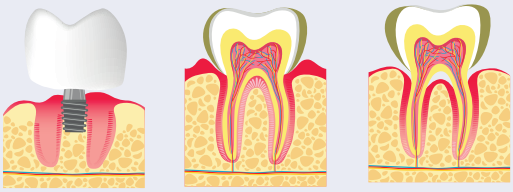
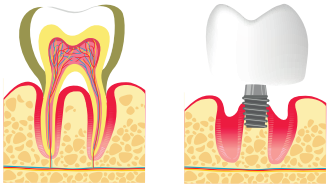
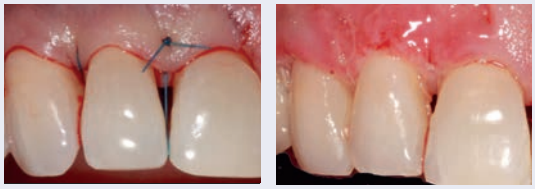
Recession Day 1

Recession Day 2

Gingival bead Day 1

Gingival bead Day 2

YOUR PERIODONTICS

STAGE	DIAGNOSIS	VISUALIZATION
STAGE 1	**IRRITATIONS OF THE MUCOUS MEMBRANES** Injuries - Ulceration - Gingival bead - Gingival edema - Mouth ulcers	
STAGE 2	**GINGIVITIS** Localized gingivitis - Generalized gingivitis - Peri-implant mucositis - Beginner peri-implantis	
STAGE 3	**PERIODONTITIS** Initial periodontitis - Moderate periodontitis - Severe periodontitis	
STAGE 4	**SURGERY** Periodontal surgery - Laser - Osteitis - Extraction - Implant placement	

YOUR TOOLS

Refer to «Your periodontics and surgical guide» to select the appropriate protocol

AND SURGICAL GUIDE

TREATMENT

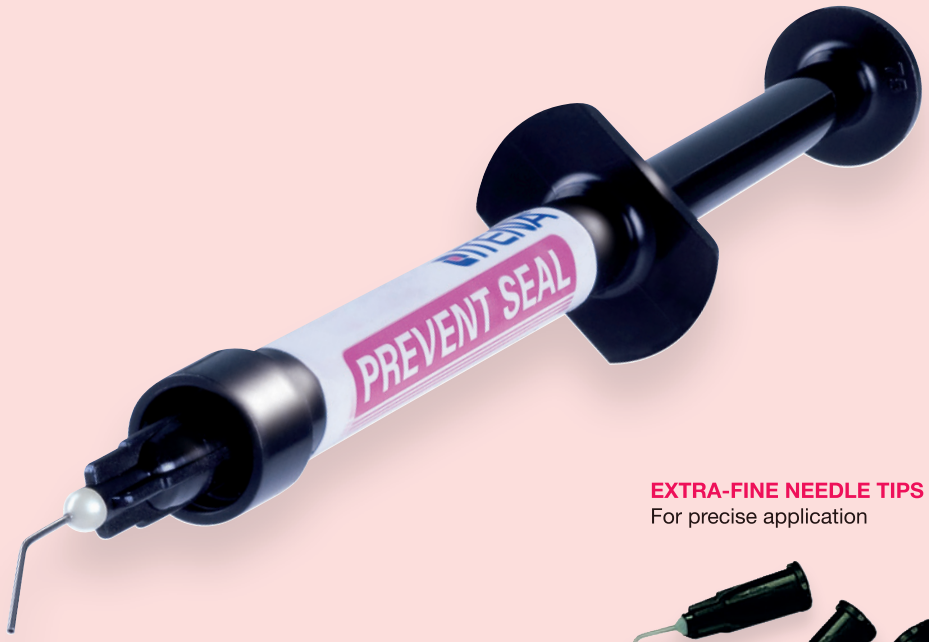
1 **Teaching in oral hygiene if necessary**	**2** **Relief of oral lesions with KLIRICH® Pro**	**3** **Oral hygiene: brush your teeth twice a day; use floss and mouthwash**	**4** **Relief of oral lesions with KLIRICH®**
1 **Descaling**			
1 **Initial therapeutics, periodontal sanitation**	**2** **Application of KLIRICH® Pro in the pocket with hemostatic sponge**		
1 **Surgical act**	**2** **Application of KLIRICH® Pro on sutures, implants, in the post-extraction / painful cavity**		

Office use
Syringe format available through your local distributor.

Home use (ambulatory)
Tube format available through your local distributor

PREVENT SEAL

Self-etching light-cured pit & fissure sealant



EXTRA-FINE NEEDLE TIPS
For precise application

ADVANTAGES

- **Self-Etching:**
  No etching, no rinsing! A real time saver
- **Excellent bonding strength on enamel (20 - 25 MPa)**
  For a long-lasting seal
- **Contains fluorides**
- **Optimal fluidity**
- For perfect spreading into the pits and fissures
- **Light-curing** up to 4.5 mm
- **Supplied with Extra-fine needle tips:**
  for precise and economical sealant application

INDICATIONS

Use of the self-etching technique **for the preventative sealing of pits on permanent teeth in patients that present a raised risk of developing cavities.**

- For pits and fissures that are difficult to clean and therefore particularly sensitive to dental decay.
- Sealing with PREVENT SEAL self-etching pit & fissure sealant enhances oral hygiene and offers protection to sensitive teeth surfaces by protecting them with waterproof layer of resin, preventing the penetration of micro-organisms.

References

PREVENT SEAL

1.2 ml syringe
+ 10 extra-fine needle tips 25G PVSEAL-1.2

Refill

20 extra-fine needle tips 25G PVSE-25G

HINTS & TIPS

- *Instead of using small brushes, air abrasion can be used to thoroughly clean the tooth before applying the sealant. All alumina particles should be removed as these reduce the adhesion of Prevent Seal.*
- *The prepared surface must be thoroughly dried before PREVENT SEAL is applied, as the product is hydrophobic*
- *PREVENT SEAL is a composite resin and is therefore compatible with all other available composites.*
- *Contains the photoinitiator camphorquinone. Use a curing light emitting between 400 and 500 nm.*

PROTOCOL

Photos by Dr Shalom Melher

Initial view

Clean using water spray brush

Air-dry

Apply PREVENT SEAL

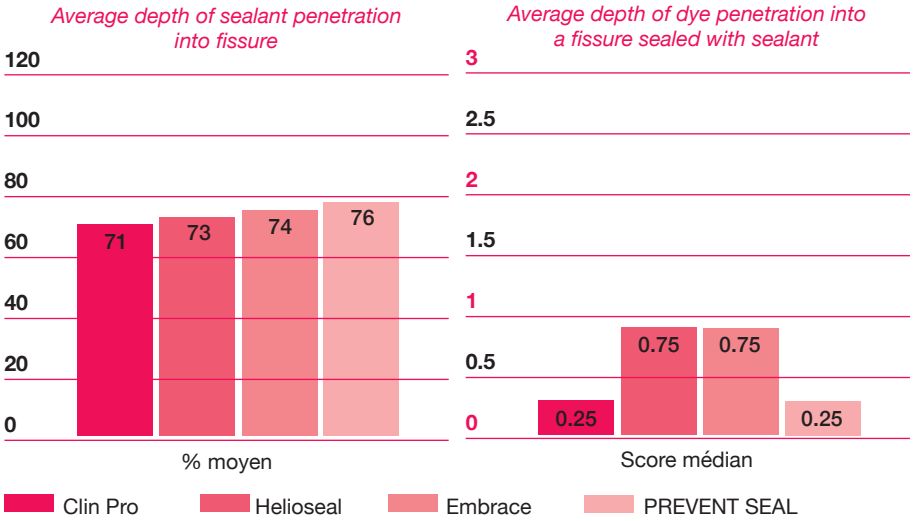
Let stand for 15 seconds

Light-cure for 20 seconds

Occlusion control

Post-operative view

Comparative study of the sealing strength of 4 different materials used for sealing pits and fissures.
IMEB Laboratory, Faculty of Dentistry Marseille, Dr. Elena Savi, Prof. Corinne Tardieu, Prof. Jacques Déjou
Laboratoire IMEB, UFR d'Odontologie de Marseille, Dr Elena Savi, Pr Corinne Tardieu, Pr Jacques Déjou



Score 3 : penetration of colourant into fissure itself

Score 2 : penetration reaching the internal area of sealed fissure

Score 1 : penetration limited to the exterior area of sealed fissure

Score 0 : dye

CONCLUSION OF STUDY:

PREVENT SEAL performances (i.e. penetration of sealant into pits and fissures and quality of peripheral seal) **are equivalent to those of conventional sealants that require prior etching**

AESTHETICS

PURE OFFICE

Professional office whitening gel

Value pack

Intro kit

ADVANTAGES

- **FAST:** single intervention in the office. The treatment is carried out in 1 to 3 stages within the office.
- **SIMPLE:** all the necessary instruments for an optimal rendering, available in introduction kit or in value pack containing:
- PURE OFFICE whitening gel syringe(s) with 35% Hydrogen Peroxide
- PURE PROTECT gingival barrier syringe(s)
- **ECONOMIC:** 5 g PURE OFFICE syringe (twice the market average)
- **PATIENT COMFORT:** Neutral pH to facilitate complete release of peroxide and ensure optimal patient comfort.
- Mint taste

Before

After

References

PURE OFFICE Intro Kit

1 PURE OFFICE whitening gel syringe (5g)
+ 2 syringes of PURE PROTECT gingival barrier PROF35-C1

PURE OFFICE Value Pack

3 PURE OFFICE whitening gel syringes (5g)
+ 6 syringes of PURE PROTECT gingival barrier PROF35-RF3

Refill

PURE OFFICE tips

2 mixing tips for 35 % HP whitening syringe PROEM-2

PURE PROTECT

4 syringes of PURE PROTECT gingival barriers (1ml - 1.5g)....PRP-BG

PURE DAY / PURE NIGHT

Teeth whitening ambulatory kits
6% Hydrogen Peroxide & 16.5% Carbamide Peroxide

PURE DAY
6% hydrogen peroxide formula
2 hours per day for 7 days

PURE NIGHT
16.5% carbamide peroxide formula
7 hours per night for 7 nights

Before

After

Before

After

References

PURE DAY Intro Kit
4 PURE DAY whitening gel syringes (2ml) + 1 PURE CARE desensitizing gel syringe + 2 thermoforming laminates + 1 tray box PRDY6-C4

PURE DAY Value Pack
20 PURE DAY whitening gel syringes (2ml) + 2 thermofoming laminates PRDY6-R20

PURE CARE
4 desensitizing gel syringes (2.3 g) ..... PRC-DSB

PURE NIGHT Intro Kit
4 PURE NIGHT whitening gel syringes (2ml) + 1 PURE CARE desensitizing gel syringe + 2 thermoforming laminates + 1 tray box PRNG16-C4

PURE NIGHT Value Pack
20 PURE NIGHT whitening gel syringes (2ml) + 2 thermoforming laminates PRNG16-R20

PURE thermoforming laminates
10 thermoforming laminates PRB-10P

YOUR GUIDE TO

PURE DAY
AESTHETIC REQUEST

Patient suffering with severe internal dyschromia, wanting a reliable and long-lasting result.

PURE NIGHT
COMPLEX REQUEST

Patient suffering with severe internal dyschromia, wanting a reliable and long-lasting result.

PURE OFFICE
URGENT REQUEST

Treatment of devitalised tooth or patient seeking a rapid and spectacular result.

TEETH WHITENING

Patient motivation interview and recommendation of the appropriate kit.
Realization of the thermoformed tray in the office.

Patient motivation interview and recommendation of the appropriate kit.
Realization of the thermoformed gutter in the office.

Detailed explanations of the course of the treatment and the best practices to adopt to ensure optimal results.
Delivery of the ambulatory kit.

2 hours per day for 7 days

Before **After**

- Respect tooth brushing and use dental floss.
- Perform regular scaling at your dentist.
- Avoid tobacco, coffee and tea which promote the staining of teeth.
- Drink a glass of water after consuming coloring products to avoid stagnation of tannins.
- Renew the whitening every 3 to 5 years.

Patient motivation interview and recommendation of the appropriate kit.
Realization of the thermoformed tray in the office.

Patient motivation interview and recommendation of the appropriate kit.
Realization of the thermoformed gutter in the office.

Detailed explanations of the course of the treatment and the best practices to adopt to ensure optimal results.
Delivery of the ambulatory kit.

7 hours per night for 7 days

Before **After**

External arches*
1-3 10 minutes sessions

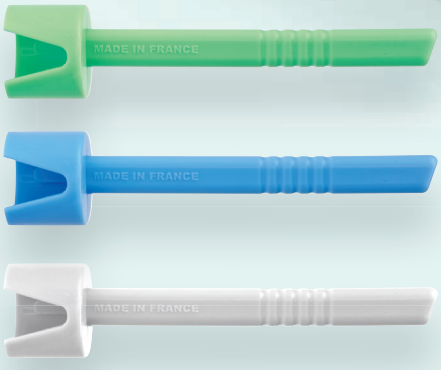
Within the canal:
Application within a canal properly filled at the apex, followed by definitive fillling after 5 weeks

Before **During** **After**

*For non-EU dentists only

AIREO V-LOCK SYSTEM

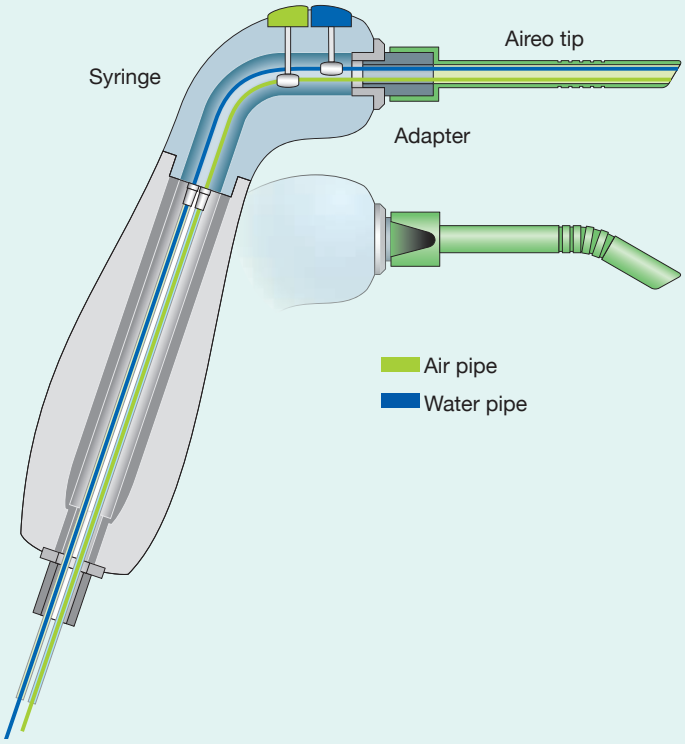
Disposable tips for air/water syringes



ADVANTAGES

- **Dry air guaranteed:** Two separate pipes for air and water without compromising the quality of the spray
- Single use: **Reduced risk of cross-contamination**
- **Reduces the risk of bacterial migration**
- **«V» shaped notch** for easy insertion
- **Very flexible tip:** Stays in the angle desired by the dentist
- Grooves enhance tip flexibility
- Allows access to hard-to-reach areas **without altering the quality of the sprays**
- Made in France
- Recyclable plastic of medical grade

DIAGRAM OF THE SYSTEM



SETTING UP

- Push the tip onto the adapter for a perfect fit
- The tip is firmly attached to the adapter to avoid the creation of a possible air chamber and a resulting pressure loss at the end of the tip
- Simply pull off the tip to change it

References

Box of 200 AIREO V-Lock System tips

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

TIPS

References

Tips for automix syringes

Mixing tips
Refill of 20 mixing tips DTEM-20
Fine tips
Length: 100 mm Ø 1.1 mm
Refill of 25 mixing tips
+ 25 fine intra-oral tips DCE-50
Extra-fine tips
Length: 135 mm Ø 0.09 mm
Refill of 25 mixing tips
+ 25 extra-fine intra-oral tips DCEXXF-50

Fine mixing tips *Mixing tips* *Extra-fine mixing tips*

Tips for double cartridges

Mixing tips for DENTOCROWN HD
10 mixing tips DWNE-10
Fine intra-oral mixing tips
Refill of 25 mixing tips
+ 25 intra-oral tips ..... DTA

Mixing tips

Fine intra-oral mixing tips

Needle tips

25G needle tips for PREVENT SEAL
Ø 0.05 mm
Refill of 20 needle tips.....PVSE-25G
22G extra-fine needle tips for DENTOETCH
Ø 0.07 mm
Refill of 20 extra-fine needle tips 22G..... DEA-20
16G extra-fine needle tips for TRAXODENT
Ø 1.3 mm flexible
Refill of 20 needle tips.....TRAEMB-20
16G extra-fine needle tips for TRAXODENT
Ø 1.3 mm flexible
Refill of 60 needle tips.....TRAEMB-60

25G needle tips

16G needle tips

22G needle tips

MICRO-APPLICATORS

References

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

+ 33 1 45 91 61 40 / contact@itena-clinical.com / www. itena-clinical.com

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