

REINFORCED COMPOSITE FOR PERMANENT RESTORATION

BRILLIANT Crios

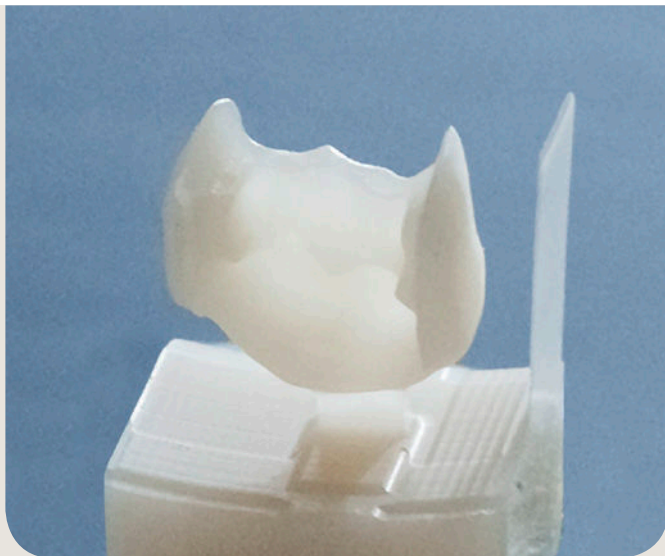
High performance – made brilliant



NEW

Now also available as Disc

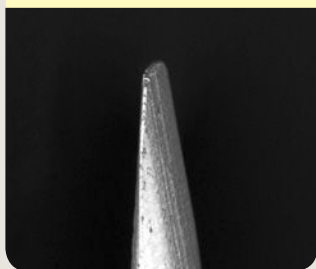
EFFICIENT HANDLING



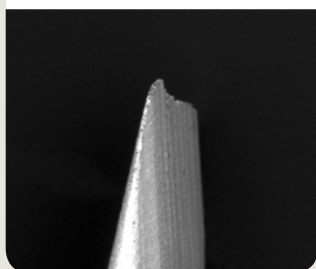
EXCEPTIONAL GRINDING PRECISION

BRILLIANT Crios is distinguished by superior precision. Even when ceramic materials have already start chipping, BRILLIANT Crios can still be ground with ease and precision in the case of extremely thin margins. This exceptional grinding precision offers greater freedom of preparation.

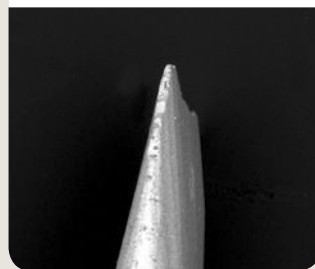
BRILLIANT Crios



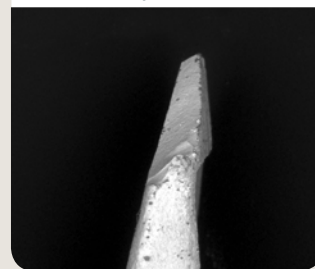
Lava Ultimate*



VITA Enamic*



IPS Empress CAD*



Ground tip 0.1 mm (Sirona inLab MC XL)

Source: C. Kopfmann et al., Eur. J. Prosthodont. Rest. Dent., EMDC Special, P21, 2015, Nuremberg | * not a trademark of COLTENE

TIME AND COST EFFICIENT

- Effortless polishing for fast gloss
- No firing process required
- Quick grinding at high precision
- Easy to modify and repair

Photo: Dr. Paulo Monteiro



BRILLIANT CRIOS FOR PERMANENT AESTHETIC RESTORATIONS

REINFORCED COMPOSITE

- High flexural strength for resistant restorations
- Tooth-like modulus of elasticity for a shock-absorbing effect and pleasant bite feeling

TOOTH-LIKE BEHAVIOUR

- Blends in extremely well to provide natural aesthetics
- High wear resistance and low abrasion on antagonist

EFFICIENT HANDLING

- No firing process required
- Can be modified and repaired
- Exceptional grinding precision for more freedom of preparation
- Effortless polishing for fast gloss

RELIABLE LUTING SYSTEM

- Secure bonding due to ONE COAT 7 UNIVERSAL
- Suitable luting material for every situation

SHAPES

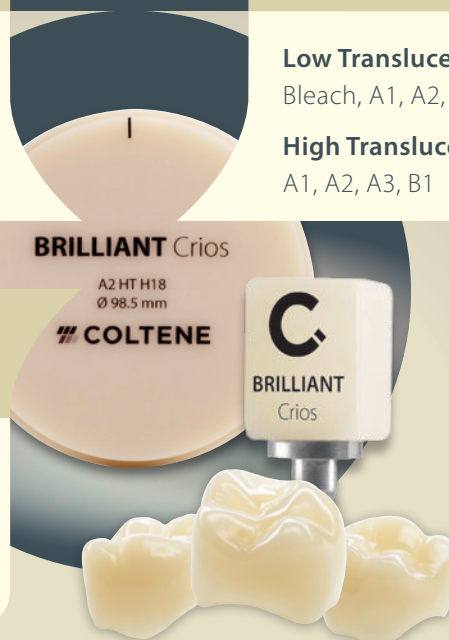
Block	12	12 × 10 × 15 (mm)
	14	14 × 12 × 18 (mm)
Disc	H14	14 × 98.5 (mm)
	H18	18 × 98.5 (mm)

SHADES

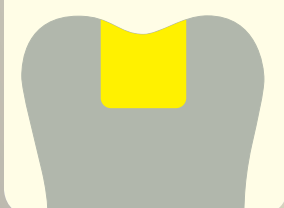
Low Translucent (LT)
Bleach, A1, A2, A3, A3.5, B1, B2, B3, C2
High Translucent (HT)
A1, A2, A3, B1

INDICATIONS

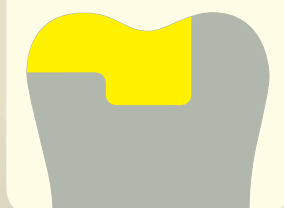
BRILLIANT Crios is the ideal choice for single tooth restorations in the anterior as well as posterior region of teeth. This includes all conventional indications such as **inlays, onlays, crowns and veneers**.



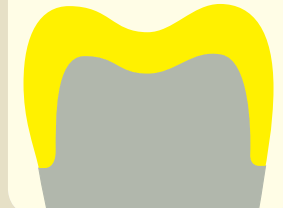
Inlay



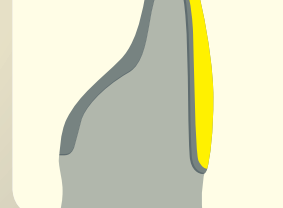
Onlay



Crown



Veneer



REINFORCED COMPOSITE

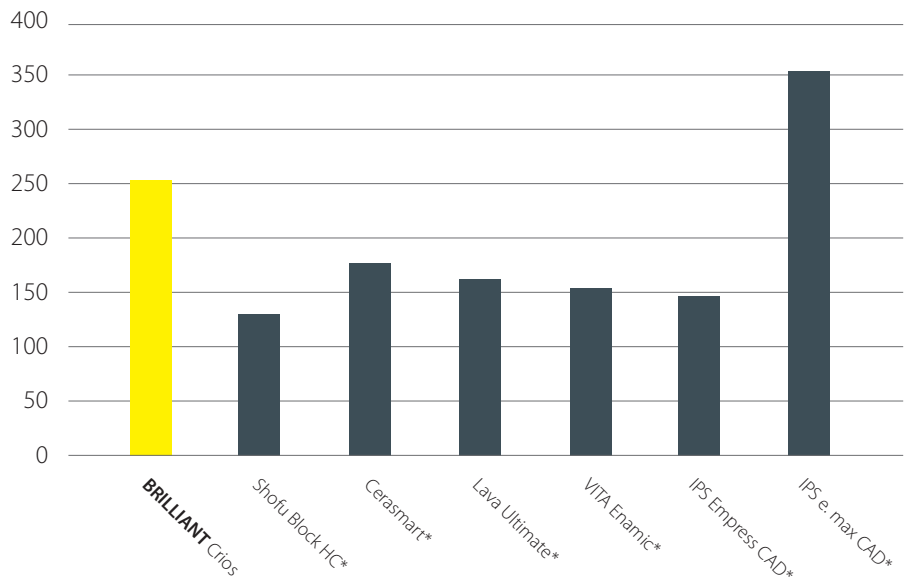
The outstanding mechanical properties of BRILLIANT Crios are the result of controlled, stress-free thermal curing. The multimodal composition of dental glass and amorphous silica in combination with a reinforcing resin matrix make BRILLIANT Crios the ideal material for permanent single tooth restorations.

A STRONG MATERIAL

The quality of BRILLIANT Crios is also reflected by its high flexural strength. The compact structure increases the material resistance and reduces the risk of fracturing.

BIAXIAL FLEXURAL STRENGTH

Measured in MPa



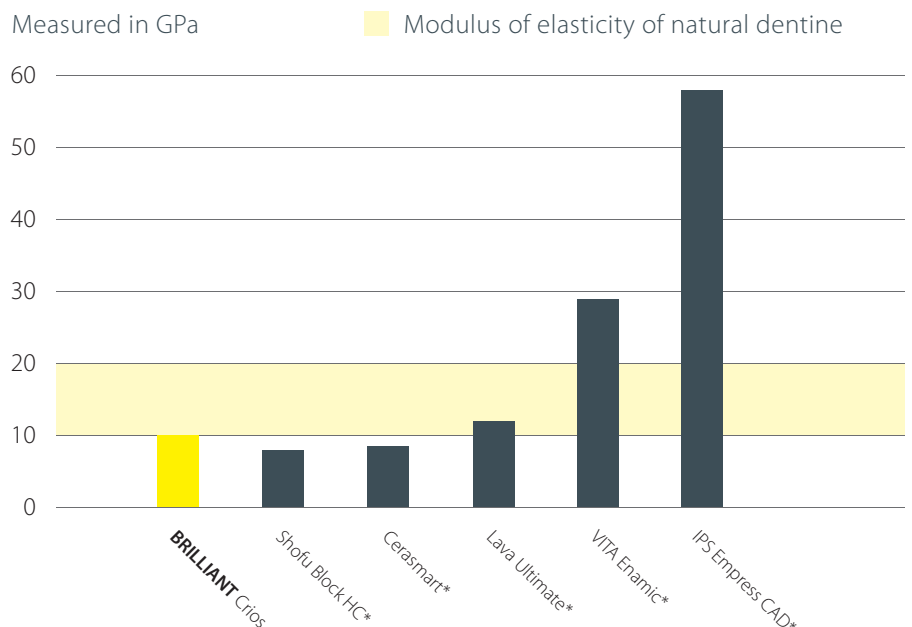
Source: internal data | * not a trademark of COLTENE

SHOCK-ABSORBING EFFECT

The dentine-like modulus of elasticity of BRILLIANT Crios reduces stress peaks during chewing, resulting in decreased risk of material fatigue. Due to its shock-absorbing effect, it is extremely well suited for implant restorations and provides a pleasant bite feeling. As tooth substance and BRILLIANT Crios have a similar modulus of elasticity, loading stress is considerably reduced at the margins.

MODULUS OF ELASTICITY

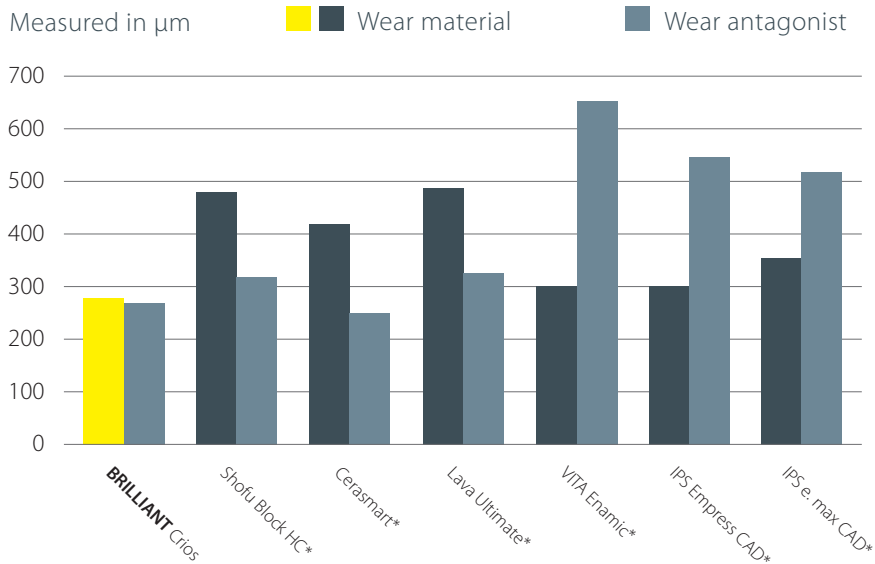
Measured in GPa



Source: R. Böhner et al., #597, IADR 2015, Antalya, Turkey
* not a trademark of COLTENE

TOOTH-LIKE BEHAVIOUR

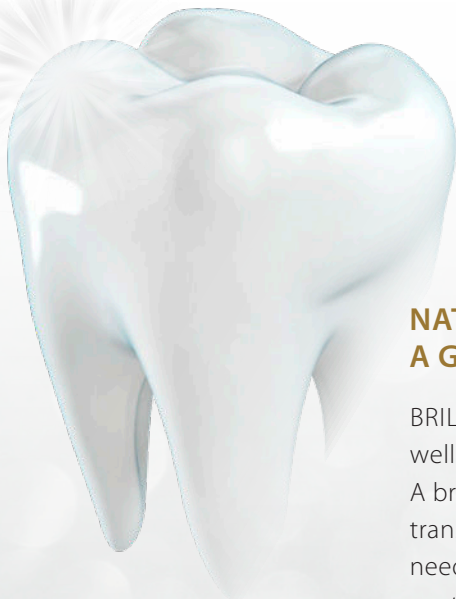
TWO-BODY WEAR



Source: Stawarczyk et al., J Mech Behav Biomed Mater 55, 1-11 (2015) | * not a trademark of COLTENE

WEAR RESISTANT AND GENTLE AT THE SAME TIME

Studies confirm the excellent abrasion resistance of BRILLIANT Crios. Nonetheless, the wear-resistant composite material proves to be especially kind to the antagonist teeth in comparison to ceramic restorations. BRILLIANT Crios is suitable as a permanent restoration material – even under considerable chewing forces – and thus offers the best of both worlds.



NATURAL AESTHETICS WITH A GLOSSY RESULT

BRILLIANT Crios blends in extremely well and conveys natural aesthetics. A broad spectrum of 13 shades in two translucencies perfectly covers the needs in the anterior as well as posterior region of teeth. Immediately after grinding, BRILLIANT Crios displays an extremely homogeneous surface structure. The restoration can therefore be brought to a high gloss very quickly. Easy repolishing, for example during prophylaxis, is possible at any time if required.

Ceramics – a smart solution
in the kitchen.

Composite – a BRILLIANT solution
in the practice.



BRILLIANT Crios

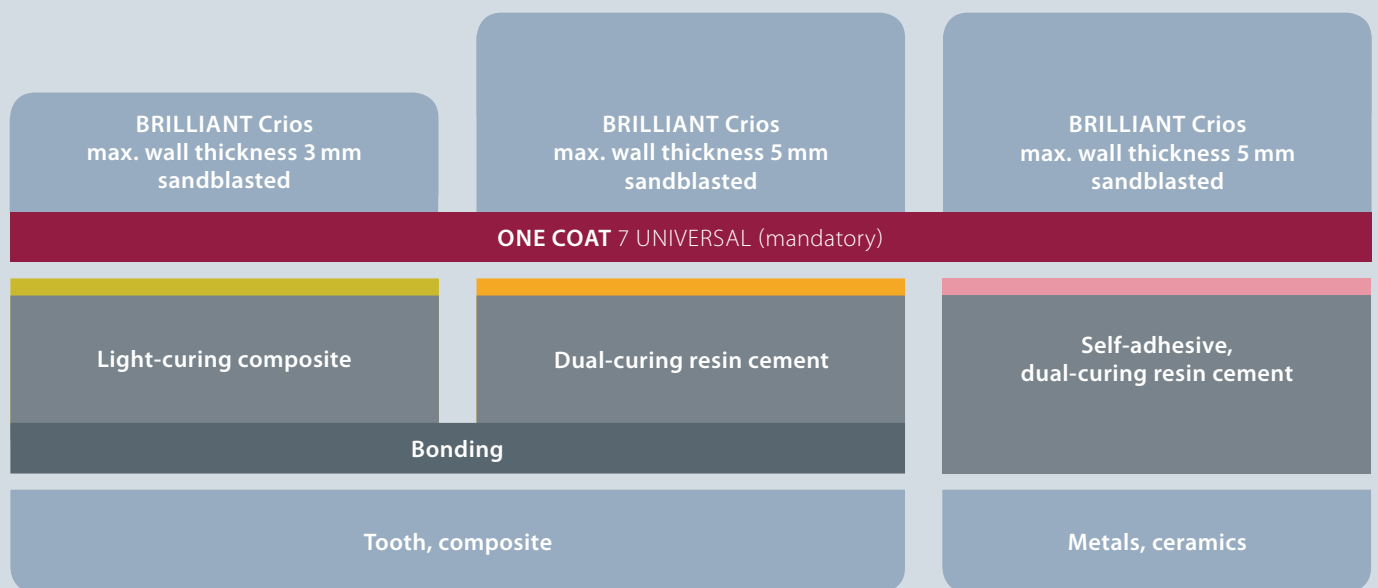
Reinforced composite for permanent restorations

Composite has long been the gold standard in direct filling therapy. With BRILLIANT Crios, the well-proven dental material entered the indirect CAD/CAM restoration technology. Compared to ceramics, CAD/CAM composites offer considerable advantages.

RELIABLE LUTING SYSTEM

As part of its adhesive filling therapy, COLTENE offers a matched and proven luting system for BRILLIANT Crios. The key component of the luting concept is the universal adhesive ONE COAT 7 UNIVERSAL. The smooth BRILLIANT EverGlow composite or the dual-curing resin cements

DuoCem and SoloCem offer indication-appropriate solutions, depending on the wall thickness of the restoration and the luting substrate, ranging from natural dentine to a metal abutment.



BRILLIANT EverGlow®

Light-curing composite

Ideal as luting material to dentine or composite for thin restoration walls.

Wall thickness ≤ 3 mm

DuoCem®

Dual-curing resin cement

Offers exceptional bonding values to dentine or composite, in particular for greater wall thickness.

Wall thickness ≤ 5 mm

SoloCem®

Self-adhesive,
dual-curing resin cement

Convincing bonding to metal or ceramic abutments, without requiring an additional bonding step.

Wall thickness ≤ 5 mm

SECURE BONDING

ONE COAT 7 UNIVERSAL

ONE COAT 7 UNIVERSAL is matched perfectly to the BRILLIANT Crios components, resulting in strong anchorage and a reliable adhesion. This is why the ONE COAT 7 UNIVERSAL adhesive is to be used in conjunction with BRILLIANT Crios.



The monomers (red) contained in ONE COAT 7 UNIVERSAL penetrate into the polymerised resin matrix of BRILLIANT Crios



Polymer chains are formed during polymerisation of the monomers and these are anchored in the resin matrix.

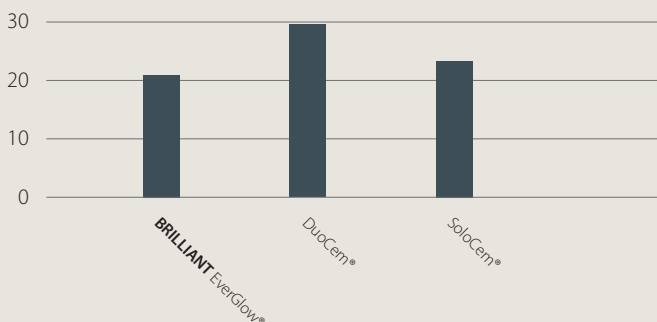


The double bonds contained in the resin matrix form chains during polymerisation of the monomers.

 BRILLIANT Crios
 ONE COAT 7 UNIVERSAL

SHEAR BOND STRENGTH WITH ONE COAT 7 UNIVERSAL

Measured in MPa



The BRILLIANT EverGlow, DuoCem and SoloCem luting materials demonstrate excellent bonding strengths to give a secure adhesion to BRILLIANT Crios.

Source: internal data

FURTHER PROPERTIES

ONE COAT 7 UNIVERSAL is a light-curing one component universal adhesive.

- Exceptional bonding values on enamel and dentine
- Excellent marginal seal
- Minimised postoperative sensitivity
- For all application techniques (Self-Etch, Selective Etch, Total Etch)

*Methacryloyl-oxydecyl-dihydrogenphosphate



CLINICAL CASE

Restored teeth

26 with BRILLIANT Crios A2 HT
27 with BRILLIANT Crios A2 LT

Luting

ONE COAT 7 UNIVERSAL
with BRILLIANT EverGlow A2/B2

1. Initial situation



2. Prepare



3. CAD/CAM restoration (27)



4. Sandblasting



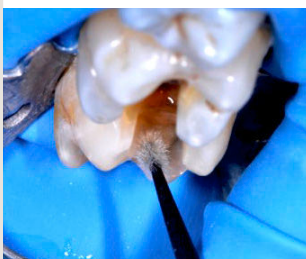
5. Bonding



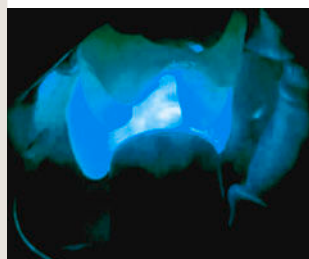
6. Etching



7. Bonding



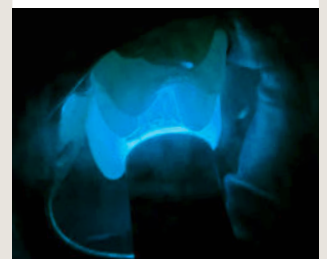
8. Light-curing



9. Luting



10. Light-curing



11. Final result



ORDER INFORMATION

BRILLIANT Crios

60020095 Intro Kit CEREC 12

Each 1 x A2 LT 12, A3 LT 12, A3.5 LT 12, A2 HT 12, A3 HT 12
5 x 0.1 ml ONE COAT 7 UNIVERSAL Single Dose

60020097 Intro Kit CEREC 14

Each 1 x A2 LT 14, A3 LT 14, A3.5 LT 14, A2 HT 14, A3 HT 14
5 x 0.1 ml ONE COAT 7 UNIVERSAL Single Dose

	CEREC/inLab – 5 blocks				Disc (1 pc)			
	Low Translucent		High Translucent		Low Translucent		High Translucent	
	12	14	12	14	H 14	H 18	H 14	H 18
Bleach	60019998 BL LT 12	60019985 BL LT 14						
A1	60019999 A1 LT 12	60019986 A1 LT 14	60020007 A1 HT 12	60019994 A1 HT 14	60022899 A1 LT H14	60022886 A1 LT H18	60022907 A1 HT H14	60022894 A1 HT H18
A2	60020000 A2 LT 12	60019987 A2 LT 14	60020008 A2 HT 12	60019995 A2 HT 14	60022900 A2 LT H14	60022887 A2 LT H18	60022908 A2 HT H14	60022895 A2 HT H18
A3	60020001 A3 LT 12	60019988 A3 LT 14	60020009 A3 HT 12	60019996 A3 HT 14	60022901 A3 LT H14	60022888 A3 LT H18	60022909 A3 HT H14	60022896 A3 HT H18
A3.5	60020002 A3.5 LT 12	60019989 A3.5 LT 14			60022902 A3.5 LT H14	60022889 A3.5 LT H18		
B1	60020003 B1 LT 12	60019990 B1 LT 14	60020010 B1 HT 12	60019997 B1 HT 14				
B2	60020004 B2 LT 12	60019991 B2 LT 14						
B3	60020005 B3 LT 12	60019992 B3 LT 14						
C2	60020006 C2 LT 12	60019993 C2 LT 14						

ONE COAT 7 UNIVERSAL

60019538 ONE COAT 7 UNIVERSAL Intro Kit

1 x 5 ml ONE COAT 7 UNIVERSAL
1 x 2.5 ml Etchant Gel S
1 x 20 pcs Application tips
1 x 50 pcs Brushes black
1 x Mixing well
1 x Cover for mixing well

60019539 ONE COAT 7 UNIVERSAL Refill

1 x 5 ml ONE COAT 7 UNIVERSAL

60019540 ONE COAT 7 UNIVERSAL Single Dose

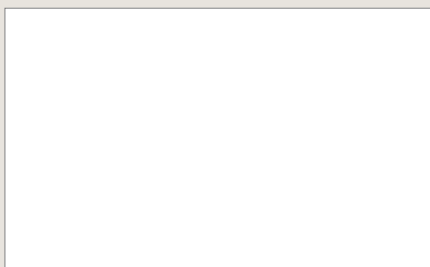
1 x 50 pcs ONE COAT 7 UNIVERSAL Single Dose
1 x 50 pcs Brushes black

7054 ONE COAT 7.0 Activator Kit

1 x 3 ml ONE COAT 7.0 Activator
1 x 50 pcs Brushes black



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Coltene/Whaledent Ltd.
The President Suite
Kendal House, Victoria Way
Burgess Hill, West Sussex
RH15 9NF / UK
Tel +44 1444 235486
Fax +44 1444 870640
info.uk@coltene.com

Coltene/Whaledent AG
Feldwiesenstr. 20
9450 Altstätten / Switzerland
T +41 71 757 53 00
F +41 71 757 53 01
info.ch@coltene.com

Coltene/Whaledent Inc.
235 Ascot Parkway
Cuyahoga Falls, Ohio 44223 / USA
T +1 330 916 8800
F +1 330 916 7077
info.us@coltene.com

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