

Technique Guide

Pre-Treatment



CLEAN AND DRY

For zirconia-based ceramic, Prime&Bond active™ adhesive can be used as zirconia primer on intaglio surface after conducting the sandblasting step. For all other all-ceramic materials, etch the bonding surfaces with hydrofluoric acid and use Calibra® Silane Couple Agent.

Adhesive



APPLY ADHESIVE TO TOOTH

Apply Prime&Bond active to all cavity surfaces. Avoid pooling. No need of Self Cure Activator when used with Calibra Ceram cement. Keep Prime&Bond active slightly agitated for 20 seconds, then thoroughly dry with moderate air flow for at least five seconds. Light curing is required for non-light transmissible restorations.

Cementation



APPLY CALIBRA CERAM CEMENT

Dispense and discard a small amount of material from the syringe. Attach mixing tip, then apply a thin, uniform layer of cement to the entire internal surface of the restoration.



SEAT RESTORATION

Protect restoration from contamination and movement until the final set of the cement (five minutes from start of mix or completion of light curing).



CLEAN UP MARGINAL EXCESS

Briefly light cure cement by constantly moving the curing tip around the margins for no more than five seconds. Excess cement will reach a gelled state after this brief cure, and will remain in this state for approximately 45 seconds. Without light curing, excess cement will reach a gelled state after one to two minutes.



REMOVE EXCESS CEMENT

Protect restoration from movement during the gel phase cleanup through the final set.



CURE

Once cleanup is complete, light cure all areas of the restoration for 20 seconds from each direction: buccal, lingual, and occlusal. If self-curing or using on a non-light transmissible restoration, do not disturb for five minutes. It is recommended to light cure exposed margins for 20-40 seconds.



FINISH AND POLISH

Complete all finishing with Enhance® Finishing System and polish using enhance® PoGo® Polishers.

Ordering Information

607100 Calibra Ceram Combo Kit

1 Dual Cure AutoMix Syringe Calibra Ceram (4.5g)
– Translucent Shade
10 Mixing Tips
1 Bottle Prime&Bond active™ adhesive (2.5mL)
25 Flocked Applicator Tips
1 CliXdish™ Mixing Well

Calibra Ceram Dual Cure AutoMix Syringe Refill Package

1 Syringe (4.5g), 10 Mixing Tips

607191 ● Light Shade
607192 ● Medium Shade
607194 ● Translucent Shade
607195 ● Opaque Shade
607196 ● Bleach Shade

607086 Calibra Cement AutoMix Syringe Mixing Tip Refill (50)



Calibra Ceram Cement



Incredible Strength.
Incredibly Easy Cleanup.



www.CalibraCement.com

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DENTSPLY



Never Settle for Less than Easy Cleanup and Great Strength

21% OF CROWN FAILURES ARE DUE TO SECONDARY CARIES, WHICH CAN BE AIDED BY EXCESS RESIN CEMENT¹

75% OF DENTISTS HAVE USED A BUR TO REMOVE EXCESS RESIN CEMENT²

1/5 RESTORATIONS ARE NON-RETENTIVE PREPARATIONS³

Until now, you've had to settle for cements that are difficult to clean up. This can be a serious matter, as improper cleanup of cement can lead to compromised retention and bond strength, decreasing the longevity of the restoration. Leftover cement can also cause irritation and inflammation to the gingiva, eventually causing crown failure.¹

Choosing the wrong cement can cause de-bonding issues and crown failure, especially in cases where the clinical treatment plan requires a cement that can hold strong and last long.

Now there's a cement that offers easy, unhurried cleanup and superior strength. Why settle for less?

Mighty. Easy to Clean Up. All in One Cement.

97% OF DENTISTS SAY THAT CLEANUP IS IMPORTANT TO ENSURE HEALTH OF THE GINGIVA.⁴

That's why Calibra[®] Ceram cement offers simplified cleanup with a wide tack cure window of up to 10 seconds and extended 45-second gel phase, giving you the time you need for a thorough and effective cement cleanup.⁴ It's well suited for many clinical indications.

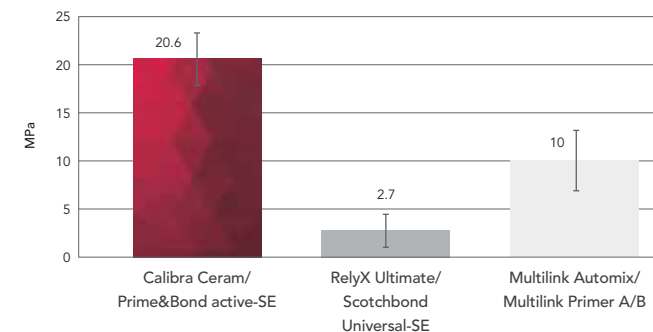


Maximum strength cement with immediate and long-term bonding for all-ceramics and CAD/CAM restorations

SUPERIOR STRENGTH

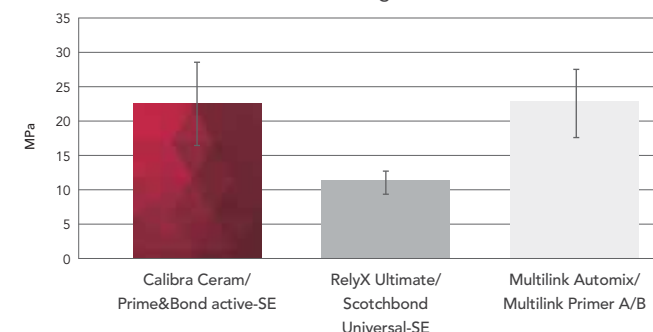
When combined with Prime&Bond active adhesive, Calibra Ceram cement provides superior strength on various substrates and preparation types. This incredible strength is perfectly suited for the increasing trend of all-ceramic crowns now preferred by 48% of dentists.⁵ Prime&Bond active adhesive offers a reliable bond on over-wet or over-dried dentin. It also offers low film thickness, so there's no concern that the geometry of the prepared surface will change, meaning less time spent adjusting the crown.

Uninterrupted Initial Bonding at Chairside 6 Minute Dentin Shear Bond Strength



Test: Shear Bond Strength testing. Prime&Bond active is light cured; Scotchbond Universal and Multilink Primer A/B are not light cured per their Direction for Use. All cements are self cured for 5'30" at 37 °C and specimens are debonded immediately. Source: Dentsply Sirona Internal Data

Bonding Strength for Long-Term Restoration Success 24 Hour Dentin Shear Bond Strength



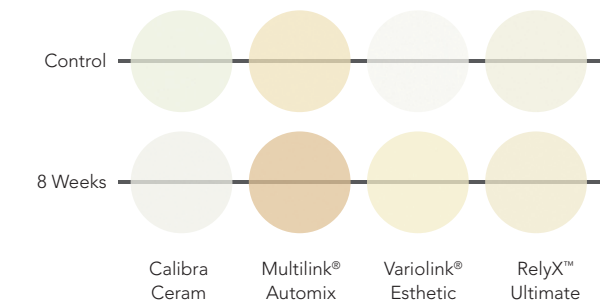
Test: Shear Bond Strength testing. Prime&Bond active adhesive is light cured; Scotchbond Universal and Multilink Primer A/B are not light cured per their Direction for Use. All cements are self cured for 5'30" at 37 °C and specimens are debonded after storage in 37 °C water for 24 hours. Source: Dentsply Sirona Internal Data

THE BALANCED SYSTEM

Some cements sacrifice strength to simplify the application technique. Others have high strength, but require too many steps and too much time. Studies show that cementation systems such as Calibra Ceram cement that include a separate primer offer better long-term strength.⁶ Calibra Ceram cement is designed with the perfect balance of strength and ease of use.

ENDURING ESTHETICS

Calibra Ceram cement was formulated to ensure esthetic success in light-transmissible restorations. Choose from five esthetic shades, all offering Shade Stable[™] technology to prevent color shifts over time.



Test: Color stability. All cements were light cured. Samples were stored in 37°C DI water for 24hr (baseline) and 60°C DI water for 8 weeks. Source: Dentsply internal data. Combined with Prime&Bond elect[®] adhesive, Calibra Ceram cement provides the ultimate in strength on various substrates and preparation types.

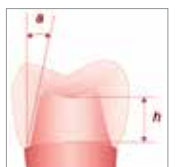
CLINICAL INDICATIONS

Calibra Ceram cement offers easy cleanup, superior strength, and enduring esthetics for a wide variety of indications.

Non-Retentive Low-Strength Restoration	Retentive High-Strength Restoration	Not Recommended
Endodontic Posts	Endodontic Posts	Recommended
Inlays and Onlays	Inlays and Onlays	Highly Recommended
Bridges	Bridges	
All Zirconia	Metal Crowns	
Metal Crowns	PfMs	
PfMs	All Zirconia	
Reinforced Core	Reinforced Core	
All Ceramic	All Ceramic	

H: Short clinical crown (≤3mm)
A: Over-tapered preparation greater than 20°

H: Preparation with adequate cervical-occlusal height (>4mm)
A: Taper between 10°-20°



1. <http://www.dentalcare.com/> (Course #392), Cynthia M. Cleveland, CDA; Angela D. Allen; Niki Henson, RDA, AS
2. Morphology and Bacterial Colonisation of Tooth/Ceramic Restoration Interface and Different Excess Removal Techniques, Journal of Dentistry 40 (2012) 742-749
3. The Key Group Inc. Omnibus Survey, March 2015 n=174 (Resin Cement Users)
4. For excess cement cleanup, monowave output LED lights with a single peak output around 470nm are recommended. High power, dual or broad spectrum lights may cause premature hardening of excess cement. Check curing light effect on mixed cement in the laboratory prior to clinical use.
5. Clinicians Report June 2014 Survey, 1,147 respondents
6. Passia N, et al. Tensile bond strength of different universal adhesive systems to lithium disilicate ceramic. JADA 2015;146(10): 729-734

To learn more about Calibra Ceram cement, please visit www.CalibraCement.com