

Dental Adhesive Resin for Filling

BONDFILL DUAL

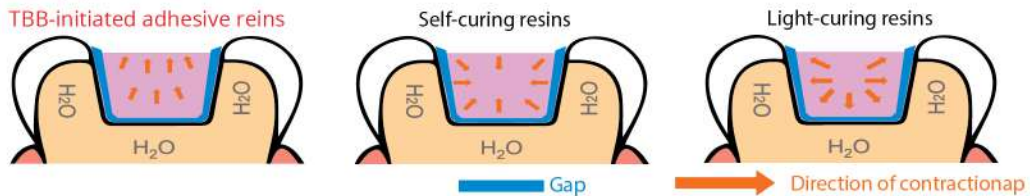
Bonding and Filling in ONE



Unique Features

1. Excellent Bond Strength and Great Sealing Ability

Bondfill DUAL uses TBB resin technology as Bondfill SB (self-cure, self-adhesive resin). TBB in Catalyst initiates polymerization at the tooth surface, which results in outstanding **bonding with minimum contraction gap**.



2. Significant Resiliency

Produces a strong yet resilient resin that has been designed to absorb intense and complicated external stress.

Three Point Bending Test



3. Simple Steps for Solid Performance



20 sec
Apply

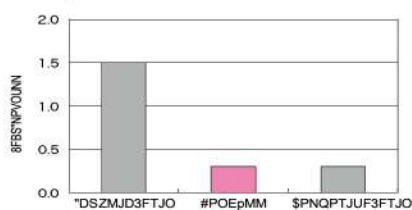
Air blow
No water rinse
No bonding agent

Bonds to both enamel and dentin
Outstanding bond strength

Tooth Surface	Bond Strength*
Enamel	24MPa (MTBS)
Dentin	32MPa (MTBS)

*Both self-cure and dual-cure (with LED. 20sec)

4. Moderate wear resistance



Easy on opposing teeth but greatly resists wear.

Shades available for wide coverage

	A1	A2	A3	A3.5	A4	A4.5
Light	Light blue oval					
Medium		Medium blue oval				
Cervical					Orange oval	
Opacous			Light brown oval			

Apply for masking metal coping

Clinical Cases

Bondfill DUAL is a unique dual-cure, self-adhesive resin for fewer step restorations. The cured Bondfill DUAL is resilient, so it endures complicated stress better where regular resin composite pops out easily.

Bondfill DUAL, modified by adding photoinitiator to Bondfill SB (self-cure, self adhesive resin), cures faster by light irradiation for shorter chair time without altering Bondfill SB's physical properties and clinical performances.

Restoration of cervical caries

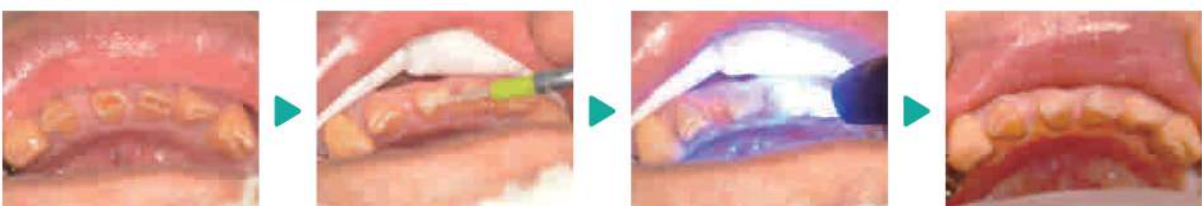


These clinical cases are difficult to restore with conventional composite resins. Resilient Bondfill DUAL can decrease the risk of fracture and debonding. Bondfill DUAL can also be used for non-carious cervical lesions (wedge-shaped defects).

Restoration of class III cavity



Restoration of attritions



Secondary caries



Recementing (debonded) prosthesis



Bondfill DUAL is dual cure and fully polymerizes under prosthesis without light irradiation.

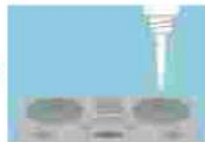
CLINICAL PROCEDURE



Clean the tooth

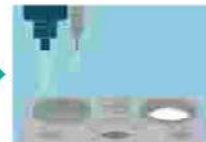


Apply Teeth Primer and dry
Saturate the surface with copious amount of Teeth Primer for approx. 20 sec, then air dry.
Rinse not needed.



Dispense the Powder

Powder Optimum



Prepare the Activated Liquid
Dispense the Dual Base and the Catalyst V.
Stir lightly.

Dual Base	2-3 drops
Catalyst V	1 drop

Application of the Activated Liquid
3 min working time

Using the same brush, wet the surface to be bonded with the activated liquid.

BRUSH-DIP TECHNIQUE



Dip the brush and form a ball
Soak the brush with ample activated liquid. Then touch the brush to the Powder in the Dispensing Cup.



Restore/Build-up

Irradiation	Curing time
Yes	Approx. 4 min
• LED/Halogen for 20 sec.	
• Plasma arc for 6 sec.	Approx. 5 min
No	

Temperature : 37°C

Curing



Finish and polish*

* For better results, Sun Medical recommends:
• In the case of irradiation shown in the above figure, wait approx. 7 min before finish and polish.
• In the case of no irradiation, wait approx. 10 min before finish and polish.