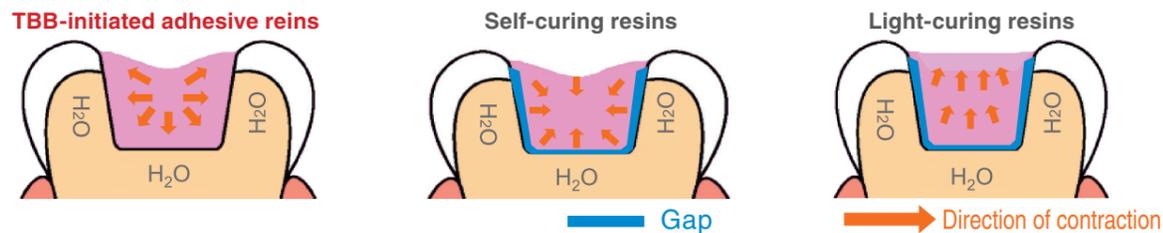




### Unique Features

#### 1 Excellent Bond Strength and Great Sealing Ability

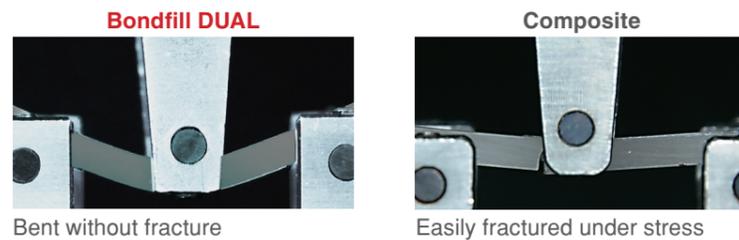
Bondfill DUAL uses TBB resin technology as Bondfill SB (self-cure, self-adhesive resin). TBB in Catalyst initiates polymerization at the tooth surface, which results in outstanding bonding with minimum contraction gap.



#### 2 Significant Resiliency

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

##### Three Point Bending Test



Flexural Strength	
Bondfill DUAL*	80MPa
Composite Resin	115MPa

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

#### 3 Simple Steps for Solid Performance



Self-etching  
Teeth Primer

20 sec

Apply

Air blow

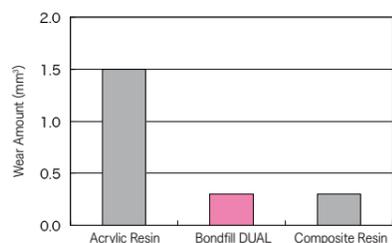
No water rinse  
No bonding agent

- 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	Light Blue				
Medium			Medium Blue			
Cervical					Cervical Orange	
Opacious			Opacious Tan			

\* Apply for masking metal coping

# BONDFILL DUAL

## Bonding and Filling in ONE



**SUN MEDICAL**  
www.sunmedical.co.jp



**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**

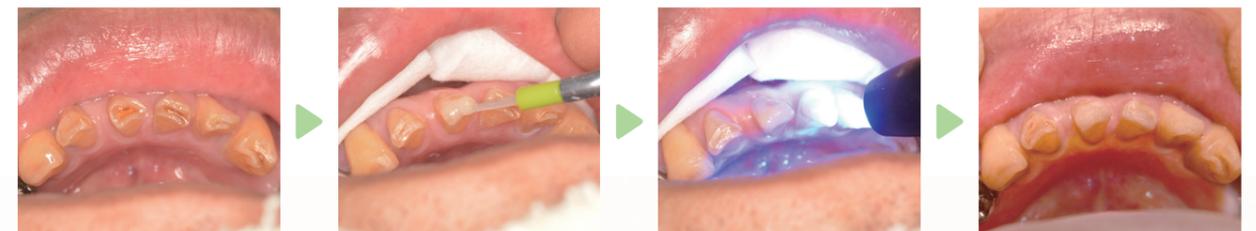


These clinical cases are difficult to restore with conventional composite resins. Resilient Bondfill DUAL can decrease the risk of fracture and debonding. Bondfill DUAL can also be used for non-carious cervical lesions (wedge-shaped defects).

**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**

<p><b>Clean the tooth surfaces</b></p>	<p><b>Apply Teeth Primer and dry</b> Saturate the surface with a copious amount of Teeth Primer for approx. 20 sec, then air dry. <b>Rinse is not needed.</b></p>	<p><b>Dispense the Powder</b></p> <table border="1"> <tr> <td>Powder</td> <td>Optimum</td> </tr> </table>	Powder	Optimum	<p><b>Prepare the Activated Liquid</b> Dispense the Dual Base and the Catalyst V. Stir lightly.</p> <table border="1"> <tr> <td>Dual Base</td> <td>2-3 drops</td> </tr> <tr> <td>Catalyst V</td> <td>1 drop</td> </tr> </table>	Dual Base	2-3 drops	Catalyst V	1 drop	<p><b>Application of the Activated Liquid</b> 3 min working time</p> <p>Using the same brush, wet the surface to be bonded with the activated liquid.</p>	<p><b>BRUSH-DIP TECHNIQUE</b></p> <p><b>Dip the brush and form a ball</b> Soak the brush with ample activated liquid. Then touch the brush to the Powder in the Dispensing Cup.</p>	<p><b>Restore/Build-up</b></p>	<table border="1"> <thead> <tr> <th>Irradiation</th> <th>Curing time</th> </tr> </thead> <tbody> <tr> <td>Yes • LED/Halogen for 20 sec. • Plasma arc for 6 sec.</td> <td>Approx. 4 min</td> </tr> <tr> <td>No</td> <td>Approx. 5 min</td> </tr> </tbody> </table> <p>Temperature : 37°C</p>	Irradiation	Curing time	Yes • LED/Halogen for 20 sec. • Plasma arc for 6 sec.	Approx. 4 min	No	Approx. 5 min	<p><b>Finish and polish*</b></p>
Powder	Optimum																			
Dual Base	2-3 drops																			
Catalyst V	1 drop																			
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Yes • LED/Halogen for 20 sec. • Plasma arc for 6 sec.	Approx. 4 min																			
No	Approx. 5 min																			
<p>* For better results, Sun Medical recommends:</p> <ul style="list-style-type: none"> <li>• In the case of irradiation shown in the above figure, wait approx. 7 min before finish and polish.</li> <li>• In the case of no irradiation, wait approx. 10 min before finish and polish.</li> </ul>																				