BEAUTIFIL II

Continually Fluoride Releasing Aesthetic Dental Restorative Material
We are committed to keep high quality standards and to do everything necessary to meet this goal within the company.

At the same time, our company’s philosophy is:

“Research is our best Product”.

Our company’s slogan:

“SHOFU Quality with every turn!”

means permanent conformity and improvement of our customer related activities.

Wolfgang van Hall
Managing Director
BEAUTIFIL II stands out for its aesthetic appearance with excellent color harmonisation, exceptional handling properties and its anti-plaque effect. The patented filler technology integrates the light transmission and diffusion properties of natural teeth. This enables naturally appearing restorations with even one layer.

BEAUTIFIL II has the ability to continually release fluoride and offers patients effective protection against secondary caries. This property can be further enhanced to a double fluoride release with SHOFU’s FL-BOND II, a 2-step self-etching, fluoride releasing bonding system.

The hardness of the glass filler used as raw material of BEAUTIFIL II is similar to that of enamel and is antagonist-friendly. The material is therefore suitable for both anterior and posterior teeth.

In addition, BEAUTIFIL Flow and BEAUTIFIL OPAQUER are flowable and masking variations for an expanded field of application.
As a GIOMER, BEAUTIFIL II is based on the PRG (Pre-Reacted Glass-ionomer) technology. The inorganic filler consists of pre-reacted micro-glass particles. By integrating the reaction into the manufacturing process, a stable glass-ionomer phase is formed on the surface of the glass particles. Any further reaction in the oral environment (water absorption) is excluded. The S-PRG fillers (Surface Pre-Reacted Glass-ionomer) give the composite specific features, such as the recharge and release of fluoride or the anti-plaque effect, without impairing its physical parameters.

**Production process**

![Diagram showing the production process of S-PRG Technology](image)

**Special features of S-PRG technology**

- Fluoride release and recharge
- Aesthetics close to natural teeth
- Anti-plaque effect
- High level of radiopacity
- Long term clinical stability
- Resistance to wear of posterior teeth
The S-PRG fillers contained in BEAUTIFIL II have the ability to release and recharge with fluoride depending on the fluoride concentration in the mouth. The strength and stability of the composite remain unaffected.

The release of fluoride takes place exactly where the effect can best develop. This means that the adjacent contact areas of the natural hard tooth structure are effectively protected from caries due to permanent local remineralisation.

BEAUTIFIL II recharges with fluoride ions via external sources such as fluoride rinses, professional treatment or toothpastes.

This property and effect was clinically proven in an 8-year study.¹

The use of the coordinated bonding agent FL-BOND II enhances the release of fluoride and improves the protection against caries.

(Available on request)
CHARACTERISTIC FEATURES

Conducts light naturally

BEAUTIFIL II can recreate the effects of light transmission and diffusion of natural teeth due to its unique filler technology. Thanks to the perfect adaption you will achieve invisible restorations with the optical features of natural teeth.

Color stability

The shade of BEAUTIFIL II negligibly differs during modelling as well as before and after curing. This ensures the right color match even while layering.

Recommended use of colors

BEAUTIFIL II comes in 12 different colors. The universal colors – A1, A2, A3, A3.5, A4, B1, B2 and C2 – have been specially designed for a rational layering technique.

In addition, the opacious dentin colors – A2O and A3O – are particularly suitable for multi-color layering.

The enamel shade – Inc – offers highest translucency for aesthetically demanding anterior tooth restorations.

For the treatment of bleached teeth, use the Bleaching White shade – BW.

The indicators of the shade guides are made of genuine BEAUTIFIL II composite. They simulate the thickness of natural teeth to simplify the determination of the shade.
**Anti-plaque effect**

By the interaction between the components of saliva and the elements from S-PRG fillers in BEAUTIFIL II, a material film is formed on the area restored with BEAUTIFIL II. The material film that is continuously regenerated repeatedly minimizes the plaque adhesion and thus the colonization of bacteria.

Even if this film is removed, for example by teeth cleaning, subsequent protective layers are produced by the saliva.

**Optimum polishability**

Due to the average particle size of 0.8 μm and the integration of nanofillers (10-20 nm), BEAUTIFIL II is quick and easy to polish. The homogenous surface supports the anti-plaque effect.

**Fluorescence**

The fluorescence of BEAUTIFIL II is similar to that of natural teeth. The impact of visual influences such as UV light is minimized.

**Extraordinary radiopacity**

The radiopacity is 1.7 times higher than enamel and 3 times higher than dentin and permits reliable visual X-ray diagnostics.
Outstanding handling properties

BEAUTIFIL II is easy to form and can easily be attached to the prepared hard tooth structure. The viscosity of the material, which is only slightly dependent on temperature, ensures stable modelling properties without sticking to the instruments.

The “one touch cap” of the syringe has been enhanced for easy dispensing and accurate application.

Reliable strength and durability

The homogenous microstructure of BEAUTIFIL II, with its high filler loading, ensures excellent physical properties with long-term stability and a high degree of flexural strength. These outstanding material properties have been clinically proven and documented in an 8-year study. ¹

Physical properties

<table>
<thead>
<tr>
<th>Compressive strength</th>
<th>Flexural strength</th>
<th>Vickers Hardness</th>
<th>Wear resistance</th>
<th>Filler loading</th>
<th>Average filler size</th>
<th>Depth of cure</th>
<th>Radiopacity</th>
<th>Fluoride release &amp; recharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>330 MPa</td>
<td>130 MPa</td>
<td>62 HV</td>
<td>0.52 weight %</td>
<td>83.3 weight %</td>
<td>0.8 μm</td>
<td>5.9 mm</td>
<td>3.4 Al:mm</td>
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</table>

(In-house data: SHOFU Inc., R&D Dept.)


(Available on request)
Confidence starts here

Before restoration

After restoration

Images kindly provided by Dr. Sushil Koirala

Indications

Direct restorations that demand highest aesthetics and biocompatibility such as:

- Restorations of Class III, IV and V cavities
- Restorations of Class I cavities and selectively of Class II cavities
- Restoration of cervical erosion and root caries
- Repair of fractured incisal edges
- Veneers and posts
- Direct cosmetic repairs
SYSTEM COMPONENTS

BEAUTIFIL Flow - BEAUTIFIL OPAQUER - FL-BOND II

The flowable versions BEAUTIFIL Flow increase the range of indications. The moderately viscous F02 and the smooth-flowing F10 are coordinated to match the colors of BEAUTIFIL II precisely.

Our BEAUTIFIL OPAQUER is available in two colors for masking discolorations, even with very thin film layers.

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<table>
<thead>
<tr>
<th>BEAUTIFIL Flow</th>
<th>BEAUTIFIL II</th>
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<tbody>
<tr>
<td>F02 A3</td>
<td>F10 A3</td>
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</table>
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Shade coordination of BEAUTIFIL II and BEAUTIFIL Flow

The self-etching, two-step bonding system FL-BOND II also contains fluoride releasing S-PRG fillers and, in combination with BEAUTIFIL II, enhances the release of fluoride. FL-BOND II Primer is free of HEMA and acetone. FL-BOND II Bonding Agent is radiopaque and, thanks to its flowable consistency, easy to apply.

Low viscosity

Extremely thin bonding layer

Collection of liquid at cavity floor

Moderate viscosity (FL-Bond II)

Even bonding layer thickness
BEAUTIFIL II 6 Color Set
- 6 BEAUTIFIL II syringes (A2, A3, A3.5, B2, A3O, Inc), 4.5 g each
- 1 Dura-White Stone (FL2)
- 1 Super-Snap Single Kit
- 1 OneGloss Trial Set
- Paper pad
PN 1775
PN 1776 Tips (6x 20 Tips at 0.25 g each)

BEAUTIFIL II Cosmetic Kit
- 3 BEAUTIFIL II syringes (A2, A3, Inc), 4.5 g each
- 1 syringe BEAUTIFIL Flow F 02 (A2), 2 g
- 1 syringe BEAUTIFIL OPAQUER (LO), 2 g
- 1 Dura-White Stone (FL2)
- 1 Super-Snap Single Kit
- 1 OneGloss Trial Set
- 2x 5 pcs syringe tips
- Paper pad
PN 1777

BEAUTIFIL II Tips 3 Color Set
- 30 BEAUTIFIL II Tips (10x 0.25 g A2, A3, B2 each)
- OneGloss (Cup, Midi, IC, 1 each)
- 1 OneGloss Mandrel CA
PN 1778

BEAUTIFIL II Syringes 4.5 g each
BEAUTIFIL II Tips 20 pcs, 0.25 g each

<table>
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<tr>
<th>Shade</th>
<th>PN</th>
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<th>Tips</th>
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<tbody>
<tr>
<td>A1</td>
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<tr>
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<td>1403</td>
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<td>Inc (Incisal)</td>
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<td>BW (Bleaching White)</td>
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<td>A2O (opacious A2)</td>
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<td>A3O (opacious A3)</td>
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OneGloss Set
One step finishing and polishing system of silicone polishers for composite restorations.
PN 0180