

BEAUTIFIL-Bulk

One Step Restoration, Two Unique Viscosities



PRG
Technology
Giomer



BEAUTIFIL-Bulk

Bulk fill resin has been hailed as a game changer in restorative dentistry. Development of new resin monomers and fillers have finally made bulk filling a reality.

BEAUTIFIL-Bulk is a visible light-cured, Giomer based direct resin system developed for faster, easier and simpler restoration with one single increment of upto 4mm. A unique balance of resin with new monomers and fillers provide deep cure, minimal polymerization shrinkage stress and optimal physical properties with remarkable shade match and all round fluoride protection.

Photographs c / o Dr. med. dent. Markus Th. Firla, Hasbergen-Gaste / Germany



1. Cavity after preparation



2. Initial increment of **BEAUTIFIL-Bulk Flowable** as base



3. Occlusal capping with **BEAUTIFIL-Bulk Restorative**

ONE BULK FILL TECHNOLOGY, TWO UNIQUE VISCOSITIES

BEAUTIFIL-Bulk Flowable with self-levelling quality and seamless cavity adaptation, is ideal for dentin replacement.

BEAUTIFIL-Bulk Restorative is a sculptable paste designed for dentin and enamel replacement, by building upto the natural contour of the tooth.

CLINICAL APPLICATIONS

BEAUTIFIL-Bulk Flowable

- *As a strong base in Class I & II cavities*
- *Liner under direct resin restorations*
- *Small posterior restorations*
- *Undercut block out*
- *Minor repair of defects on direct resin restorations*
- *Restoration of deciduous dentition*

BEAUTIFIL-Bulk Restorative

- *Direct posterior restoration including occlusal surfaces*
- *Core build up*
- *Deciduous restoration*



UNIQUE BALANCE OF RESIN-FILLER CHEMISTRY



BEAUTIFIL-Bulk resin is developed with a complex balance of four different kinds of resin monomers and fillers to minimize polymerization shrinkage and associated stress, while displaying significant internal light diffusion and transmission. New monomers added to the resin polymerize to create a wider, relaxed polymer network with lower viscosity and minimal resultant stress.

S-PRG fillers in **BEAUTIFIL-Bulk** have a special surface treatment to increase wettability and adhesion to the resin matrix while the Multifunctional glass fillers exhibit refractive index close to the resin matrix to enhance light penetration into deeper layers.

BULK BENEFITS ...

- Low polymerization shrinkage and shrinkage stress
- Excellent depth of cure of upto 4mm
- Optimal translucency with excellent optical characteristics for remarkable shade match
- High radiopacity and superior mechanical properties
- S-PRG fillers impart sustained fluoride benefit with anti-plaque effect
- **BEAUTIFIL-Bulk Flowable** has excellent internal adaptation with self-levelling nature to simplify restoration process and eliminate voids
- **BEAUTIFIL-Bulk Restorative** exhibits optimal condensability and sculptability for posterior restoration with minimal shade difference pre and post cure

SIMPLIFY YOUR RESTORATIONS

All it takes is just one step and one increment of upto 4 mm to replace just the dentin or both dentin and enamel.

Case 1 – BEAUTIFIL-Bulk Flowable

Photographs c / o Dr. Lou Graham



Dentin replacement in
Class II Cavity



After restoration

Case 2 – BEAUTIFIL-Bulk Restorative

Photographs c / o Dr. Sushil Koirala



Class I Cavity (Before)



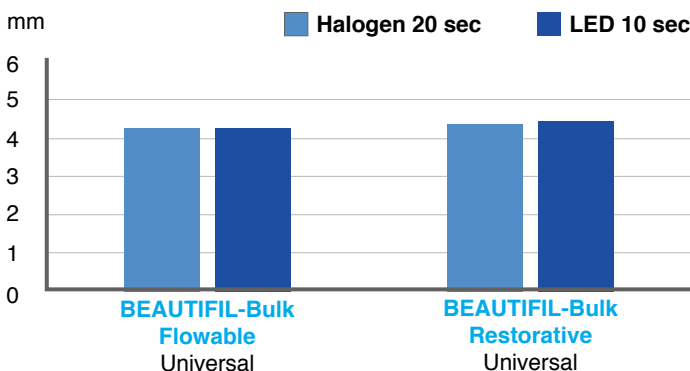
Class I Restoration (After)



DEEP CURE IN JUST ONE INCREMENT

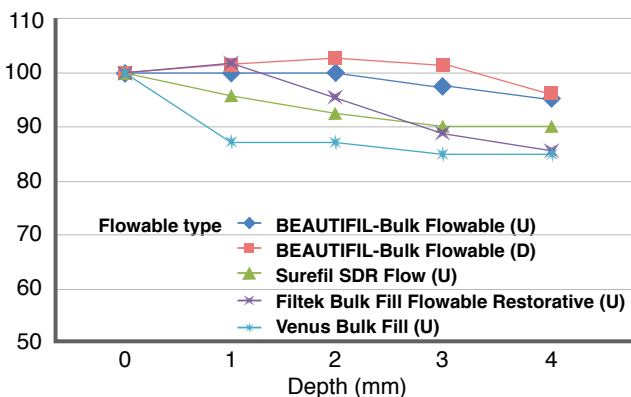
Depth of Cure is considered to be a crucial factor in determining the success of Bulk fill restorations. **BEAUTIFIL-Bulk Flowable** and **Restorative** deep cure upto 4 mm, while maintaining optimal translucency.

Depth of Cure (ISO 4049:2009 (E))

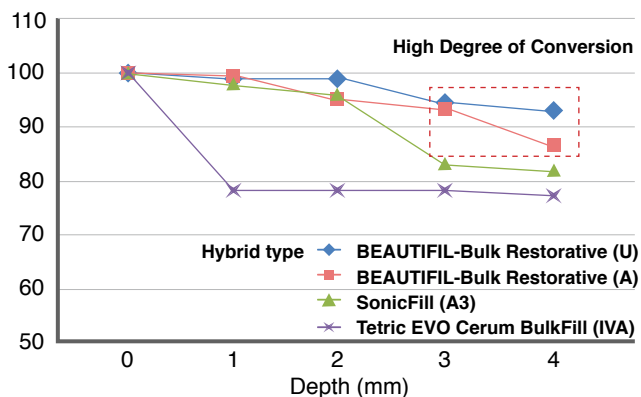


(Internal data: Shofu R&D)

BEAUTIFIL-Bulk resins exhibits remarkable hardness values at depths of 4mm, which are consistent with their high degree of conversion and superior mechanical properties.



Vickers Hardness as % of Surface hardness (%)
(Comparison with Bulk Flow materials)



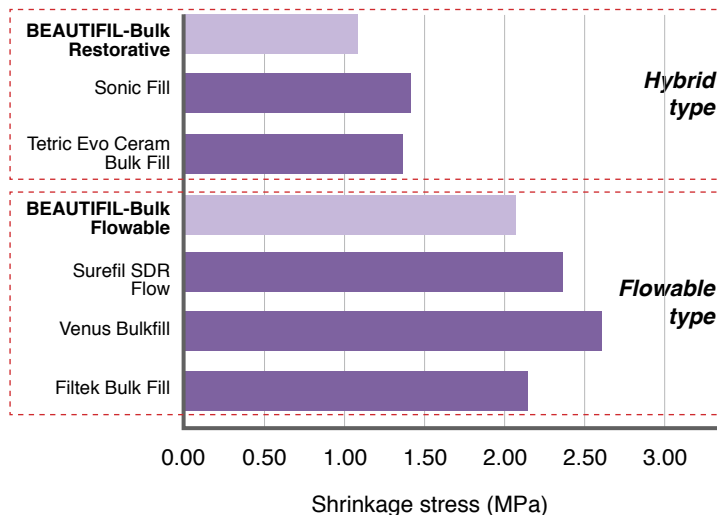
Vickers Hardness as % of Surface hardness (%)
(Comparison with Bulk Fill Restorative materials)

(Internal data: Shofu R&D)

LOW POLYMERIZATION SHRINKAGE STRESS

BEAUTIFIL-Bulk Flowable and **Restorative** resins comprise of 4 different types of resins and fillers, balanced in varying ratios to minimize polymerization shrinkage and shrinkage stress while assuring optimum viscosity for ease of handling and greater wear resistance.

Polymerization Shrinkage Stress in BEAUTIFIL-Bulk

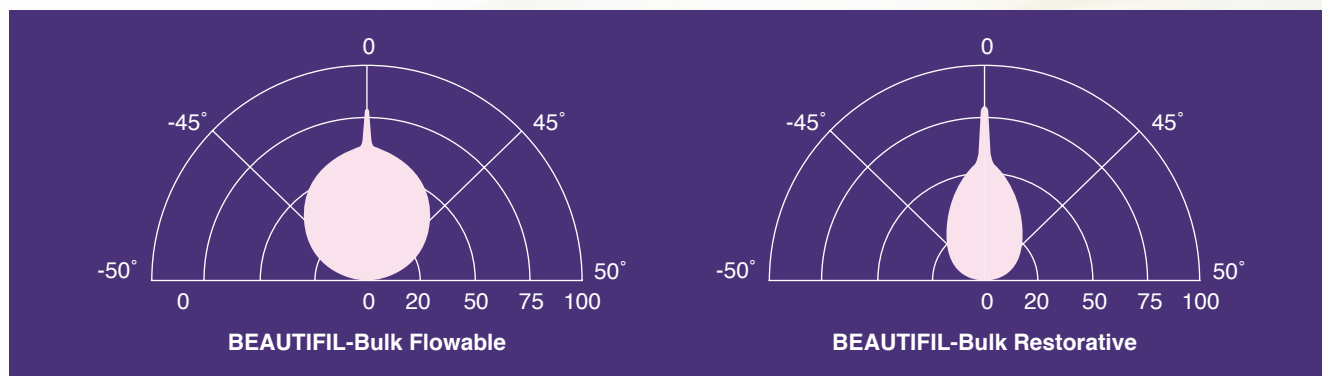
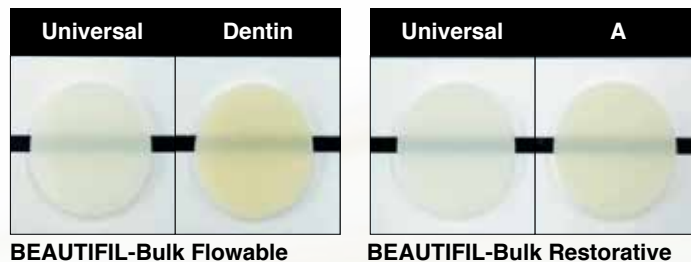


(Internal data: Shofu R&D)

REMARKABLE SHADE MATCH

Most conventional Bulk fill materials are too translucent to allow greater depth of light penetration and hence do not match surrounding tooth structure. The unique filler structure in **BEAUTIFIL-Bulk Flow** and **Restorative** materials optimize light transmission and diffusion within the entire material, to blend in well with the surrounding tooth structure for a remarkable shade match. S-PRG Fillers in **BEAUTIFIL-Bulk** exhibit a complex interaction with incident light to balance light transmission and diffusion, to ensure greater depth of cure while mimicking the shade of the restored tooth for a superior chameleon effect, even with just one shade.

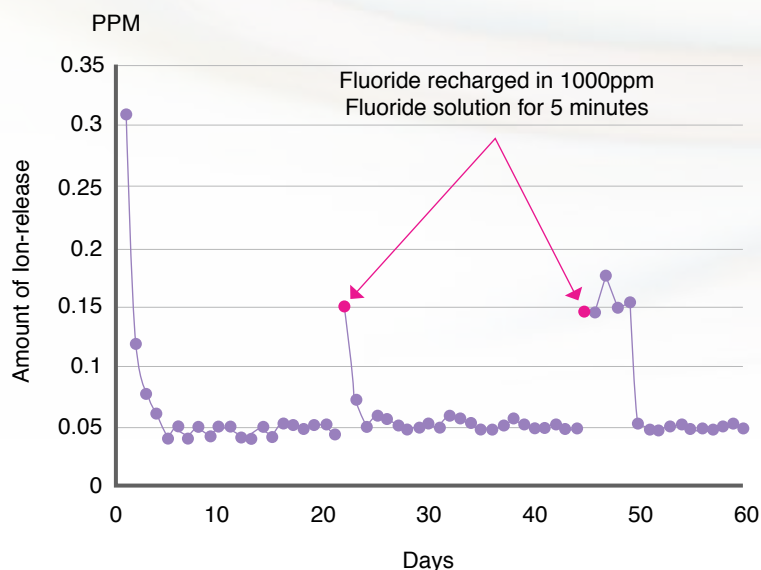
BEAUTIFIL-Bulk Shades:



SUSTAINED PROTECTION

BEAUTIFIL-Bulk Flowable and **Restorative** materials are based on S-PRG filler technology that is known to provide a fluoride rich environment through the sustained release and recharge of fluoride. S-PRG fillers help to neutralise the effects of acidogenic bacterial flora, create an acid resistant layer and promote remineralization while imparting an anti-plaque effect on the restoration surface.

Fluoride Release & Recharge in BEAUTIFIL-Bulk Restorative



(Internal data: Shofu R&D)

AVAILABILITY



BEAUTIFIL-Bulk Flowable, 2.2g

Shades: Universal [PN 2030]

Dentin [PN 2031]



BEAUTIFIL-Bulk Restorative, 4.5g

Shades: Universal [PN 2034]

Shade A [PN 2035]

RELATED PRODUCTS



BEAUTIFIL II



BEAUTIFIL Injectable



BeautiBond



BEAUTIFIL Flow



BEAUTIFIL Flow Plus



FL-Bond II



SHOFU INC. 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605 - 0983, Japan (www.shofu.co.jp)

SHOFU DENTAL ASIA-PACIFIC PTE. LTD. 10 Science Park Road, #03-12 The Alpha, Science Park II, Singapore 117684 (www.shofu.com.sg)

SHOFU DENTAL TRADING (SHANGHAI) CO. LTD. No.645 Jiye Road, Sheshan Industry Park Songjiang Shanghai 201602, China (www.shofu.com.cn)

SHOFU DENTAL CORPORATION 1225 Stone Drive, San Marcos, CA 92078-4059, USA (www.shofu.com)

SHOFU DENTAL GmbH Am Brüll 17, 40878 Ratingen, Germany (www.shofu.de)

SHOFU UK. Riverside House, River Lawn Road, Tonbridge, Kent TN9 1EP, United Kingdom (www.shofu.co.uk)