Evolve.

GIOMER TECHNOLOGY
taking dentistry to the next level
BIOACTIVE DENTAL MATERIALS

Beautiful Flow Plus® X
High-Gloss Injectable Hybrid Restorative for All Indications

Beautiful II PINK
Gingival Fluoride Releasing Nano-Hybrid Composite

Beautiful II
A Nano-Hybrid Composite with Fluoride Release & Recharge

Beautiful II LS
A Micro-Hybrid Fluoride Releasing, Bioactive Composite

BIOACTIVE DENTAL MATERIALS

Giomer

PRG Technology Official Partner

Minimally Invasive Cosmetic Dentistry
The Evolution of Giomer Technology.

As with all great technology, resin based composites continue to evolve and with this bioactive benefits have become increasingly important.

The Beautifil resin composite lines contain Shofu’s proprietary Giomer technology, a bioactive surface pre-reacted glass (S-PRG) filler that actively releases six beneficial ions including fluoride.

Giomers unique ability to not only release but recharge fluoride helps to provide continual protection to the tooth.

Giomer benefits:

• Decrease in acid production of cariogenic bacteria
• Formation of an acid-resistant layer
• An anti-plaque effect
• Reduction in tooth mineral solubility

The quality of any new technology must be measured by its performance. In a major university clinical study, patients at the 8-year recall with Beautifil restorations displayed no secondary caries, failures, post-op sensitivity and maintained aesthetics. At 13 years these same restorations had a retention rate of 61% and a secondary caries rate of only 3%.

Giomer technology is an effective solution to overcome the challenges within dentistry.

BEAUTISEALANT

BeautiSealant is BPA- and HEMA-free with dual adhesive monomers that thoroughly penetrate and prepare pits and fissures for bonding to the sealant. Unlike traditional sealants which require phosphoric acid etching, demineralizing and dehydrating healthy teeth, Shofu’s self-etching primer is significantly less acidic helping to preserve healthy tooth structure.
BEAUTIFIL-Bulk Flowable

Beautifil-Bulk Flowable redefines resin-filling technology by combining the benefits of bulk-fill delivery with bioactive properties attributed to the proprietary surface pre-reacted glass-ionomer (S-PRG) chemistry. The ion exchange from Giomer fillers help neutralize acids that lead to tooth demineralization and decay.

- Base and liner in classes I and II
- Highly filled (72.5 wt%) – no-bubble consistency with better marginal adaptation
- High flexural strength (119 MPa) and low flexural modulus (9 GPa)
- Chameleon effect with life-like aesthetics
- Fluoride release and recharge – maintains bioactivity

BEAUTIFIL-Bulk Restorative

Beautifil-Bulk Restorative is a conventional packable composite resin indicated for direct posterior restorations including the occlusal surfaces. It has excellent condensability and sculptability as well as shade stability before and after light curing. Fully polymerized at 4mm depth of cure, Beautifil-Bulk Restorative has a high fill ratio at 87.0wt%, and low shrinkage stress.

- Complete polymerization at 4mm depth of cure
- Very low shrinkage (1.7%) and shrinkage stress (1.06 MPa)
- High level of radiopacity (3.0 Al:mm)
- Tooth-like aesthetics with natural fluorescence and chameleon effect
- Sustained fluoride release/recharge with bioactive Giomer chemistry

### BEAUTIFIL-Bulk Restorative Case Study

Venus Bulk Fill*

- Low wear resistance & shrinkage
- High flexural strength
- Stackable & sculptable; stays put
- Achieves more surface gloss in less time—effortless polishing

Dr. Jack Griffin, Eureka, Missouri
BEAUTIFIL Flow Plus® X

Beautifil Flow Plus X is the latest bioactive injectable hybrid restorative in the Beautifil product line with a newly developed patented nano S-PRG filler. Beautifil Flow Plus X has all of the Giomer chemistry attributes, including fluoride release and recharge, now with improved handling and effortless polishing that maintains a long-lasting shine.

- Achieves more surface gloss in less time — effortless polishing
- Improved handling
- Stackable & sculptable; stays put
- Chameleon effect — aesthetically blends with the natural tooth
- High flexural strength
- Low wear resistance & shrinkage
- Indicated for anterior & posterior teeth, classes I-V

BEAUTIFIL Flow Plus®

Combining the delivery of flowable with the strength, durability and aesthetics of hybrid composite, Beautifil Flow Plus is the next step in the evolution of restorative materials. This fluoride-releasing injectable composite is densely packed with Giomer nano-fillers (67 wt%) for fracture-free restorations. Two viscosities, a sculptable zero-flow and traditional low-flow, demonstrate high compressive and flexural strength (ca. 350 MPa and 130 MPa, respectively) making the material optimal for restoring both anterior and posterior teeth, even cusps and marginal ridges.

- Base, liner and final restorative – all in one
- No drip or ooze syringe eliminates product waste
- Extremely low wear rate yields excellent long-term results
- High radiopacity (3.4 Al:mm) permits viewing and maintenance of treated site

BEAUTIFIL® Flow

Beautifil Flow is the original fluoride-releasing Giomer composite designed to provide the ease of handling and placement. Two distinct viscosities, F02 and F10, demonstrate the same physical and mechanical characteristics and maintain ideal aesthetics.

BEAUTIFIL Flow Plus Case Study

Dr. Howard Glazer, Fort Lee, New Jersey
BEAUTIFIL® II

Beautifil II creates indistinguishable restorations with optical characteristics of natural teeth. It has excellent versatility with natural shade reproduction that can be achieved with a chameleon effect, using a single shade that blends well with surrounding teeth making the restoration undetectable. Beautifil II is an aesthetic, universal nano-hybrid composite that releases and recharges fluoride and is approved for classes I-V, perfect for direct restorations that require optimum aesthetics and bioactivity. After 13 years of placement, 61% of 41 restorations observed had either excellent or satisfactory ratings.1

- Sustained fluoride release and recharge
- Ideal handling – easy sculpting without slumping or sticking
- Exceptional marginal seal
- Natural fluorescence with high radiopacity (2.3 AI:mm)
- Fast and easy polishing creates outstanding surface luster that retains gloss over time
- Anti-plaque attributes minimize bacterial colonization and plaque build-up

BEAUTIFIL® II LS

Indicated for all classes of restorations, I—V and highly filled (83 wt%), Beautifil II LS, demonstrates high compressive and flexural strength (ca. 370 MPa and 120 MPa, respectively), maintains ideal color stability and polishes in an instant, producing a long-lasting sheen. Beautifil II LS has been formulated to minimize polymerization shrinkage and shrinkage stress to prevent micro-leakage and marginal discoloration for a durable aesthetic restoration.

- Great strength and high wear resistance
- Polishes in an instant
- Tooth-like aesthetics with natural fluorescence and chameleon effect
- Natural light transmission and diffusion
- Sustainable fluoride release and recharge with bioactive Giomer Technology
- Low volumetric shrinkage (0.8%) and shrinkage stress (2.72 MPa)

BEAUTIFIL® II Gingiva & Enamel

Five gingival shades of Beautifil II Gingiva can be easily blended to custom shade-match any type of gum tissue to meet the needs of all ethnicities. The material can be predictably bonded to dentin, enamel, ceramics and metal substrates.

- Improve the appearance of soft tissue without surgery
- Restore recession, lost papilla and black triangles
- Mask exposed abutments and C&B margins
- Repair worn, fractured dentures

Intended for direct anterior restorations, Beautifil II Enamel, is available in four shades that can be layered and blended together to achieve polychromatic restorations with morphology and aesthetics of natural dentition.

- Create natural results with a simplified layering and sculpting
- Modeled after the porcelain color concept—easy color matching
- Direct veneers made simple
BeautiBond®

The strength and durability of BeautiBond has been validated through in vitro studies and multi-site clinical studies as well as SEM and TEM observation.²⁻⁴ BeautiBond continues to deliver outstanding results in worldwide clinical trials and recently an independent study found high bond strengths were not significantly improved even with the addition of phosphoric acid etching steps.³ The phosphonic and carboxylic acid monomers in BeautiBond promote wetting and monomer penetration into the surface of hard tissue.

- High enamel and dentin bond strength was achieved with BeautiBond despite less aggressive etching patterns.⁷

- Comparative 3-year clinical study showed 0% sensitivity and 93.7% retention rate, with half the failure rate of Xeno IV⁶

- No HEMA

- Equally high shear bond strength to both enamel (26.4) and dentin (27.8) – one coat, no agitation, no etch. Just applied and cured – cannot be easier!⁷

### INSTRUCTIONS FOR USE

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*Class V restorations  
**Posterior restorations only

### References


3. University of Florida study. 3104 Clinical Evaluation of a Giomer Restorative System: Thirteen-Year Recall. V.V. Gordan, DDS, MS; P.K. Blaser; R.E. Watson, DDS, MAE; L. Sensi; D. McEdward, J.L. Riley III; I.A. Mjör, BDS, MSD, MS, Dr.odont. IADR General Session, March 2013


7. Dr. Camila Sabatini independent study SUNY at Buffalo, School of Dental Medicine Department of Restorative Dentistry, Buffalo, NY, USA. Presented at the International Dental Adhesives Meeting.


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Classical Vita Shade Selection | INJECTABLE COMPOSITES | PACKABLE COMPOSITES
--- | --- | ---
A0.5 | YN2300 | YN2320 | 2000 / 2200 | 2013 / 2218 | 1401 / 1752 | Y2270 / Y2284
A1 | YN2301 | YN2321 | 2001 / 2201 | 2014 / 2219 | 1431 | 1461
A2 | YN2302 | YN2322 | 2002 / 2202 | 2015 / 2220 | 1432 | 1462
A3 | YN2303 | YN2323 | 2003 / 2203 | 2016 / 2221 | 1433 | 1463
A3.5 | YN2304 | YN2324 | 2004 / 2204 | 2017 / 2222 | 1434 | 1464
A4 | YN2305 | YN2325 | 2005 / 2205 | 2018 / 2223 | 1435 | 1465
A0.50 | YN2310 | 2006 / 2211
A10 | YN2311 | 2007 / 2212
A20 | YN2312 | YN2332 | 2008 / 2213 | 2020 / 2229 | 1419 / 1770 | Y2280 / Y2294
A30 | YN2333 | 2021 / 2230 | 1449 | 1479
B1 | YN2306 | YN2326 | 2062 / 2206 | 2066 / 2224 | 1408 / 1759 | Y2275 / Y2289
B2 | YN2307 | YN2327 | 2063 / 2207 | 2067 / 2225 | 1409 / 1760 | Y2276 / Y2290
B3 | YN2308 | YN2328 | 2064 / 2208 | 2068 / 2226 | 1410 / - | Y2277 / Y2291
C2 | YN2309 | YN2329 | 2065 / 2209 | 2069 / 2227 | 1412 / 1765 | Y2278 / Y2292
C3 | YN2314 | YN2334 | 2010 / 2215 | 2023 / 2232 | 1413 / - | Y2279 / Y2293
Incisal | YN2315 | YN2335 | 2011 / 2216 | 2024 / 2233 | 1414 / 1766 | Y2282 / Y2296
Bleach White | YN2336 | 2026 / 2235
Miliary White | YN2337 | 2027 / 2236
Cervical | Gum | 1451 | 1482
Translucent | Universal | Dentin | A | Needle Tips | 20 Gauge (50) | 2030 / 2028 | 2031 / 2029 | 2035 / 2033 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484

**Beautifil II Kits**

**Beautifil II 6 Color Set (1775)**
- (6) 4.5g syringes (A2, A3, A3.5, B2, A30, INC)
- Bonus Items: Dura-White Stone, Super-Snap Singles, OneGloss Trial Set

**Beautifil II Tips 6 Color Set (1776)**
- 6 tip colors (120) 0.25g tips (A2, A3, A3.5, B2, A30, INC)
- Bonus Items: Dura-White Stone, Super-Snap Singles, OneGloss Trial Set

**Beautifil II Cosmetic Set (1777)**
- (6) 4.5g syringes (A2, A3, INC)
- 2g Beautifil Opaque-LQ
- 2g Beautifil Flow FO2 (A2)
- Bonus Items: Dura-White Stone, Super-Snap Singles, OneGloss Trial Set

**NEW! Beautifil II Intro Tip Kit (BiILSK1)**
- (20) 0.25g tips (A2, A3.5)
- (2) OneGloss PS Midi-Pr

**NEW! Beautifil II LS Bulk Tip Kit (BiILSK2)**
- (2) 2.5g syringes (A2)
- 25-Hole BurButler with Tall Lid

**NEW! Beautifil II PINK (GMK1)**
- (6) 2.5g Gingiva syringes
- 2g Beautifil Flow Gingiva syringe
- Bonus Items: 4 Beautifil Flow Plus F00 & F03 Tips, 2 Beautifil II A2 Tips

**NEW! Beautifil II PINK & WHITE Kit (GMK3)**
- (2) 2.5g Gingiva syringes
- 2g Beautifil Flow Gingiva syringe
- (4) 2.5g Beautifil II Enamel syringes
- Bonus Items: 10 Beautifil Flow Plus F00 & F03 tips, 10 Beautifil Unit Dose, 10 Super-Snap Singles Mini

Refer to the Beautifil II section for the Gingiva & Enamel syringe item numbers

**NEW! Beautifil Flow Plus Kits**

**Zero Flow (F00) Kit (2000BF00)**
- 2.2g syringe of each A1, A4
- (2) 2.2g syringes of each A2, A3
- ISO 0.1mL Beautifil Unit Dose, 50 microbrushes

**Low Flow (F03) Kit (2000BF03)**
- 2.2g syringe of each A1, A4
- (2) 2.2g syringes of each A2, A3
- ISO 0.1mL Beautifil Unit Dose, 50 microbrushes

**Beautifil Flow Plus Trial Kits**

**Standard Trial Kit (2000S)**
- 2.2g syringe of each F00 (A2 and A3)
- 2.2g syringe of each F03 (A2 and A3)
- Additional Shofu samples

**BeautiBond Kits**

**BeautiBond Unit Dose (1782)**
- (50) 0.1mL unit doses, 50 microbrushes

**BeautiBond Bottle (1781)**
- 6mL, 50 microbrushes