## Composite with Fluoride Release and Recharge

**S-PRG TECHNOLOGY**
- Superior handling
- High level of radiopacity
- Desired properties of glass-ionomers
  - Fluoride release and recharge
  - Biocompatibility
  - Re-mineralization
- Long-term clinical stability
- Shade conformity (optical properties)
- Aesthetics close to natural teeth
- Resistance to wear of posterior teeth
- Anti-plaque effect

### PHYSICAL PROPERTIES
- Flexural Strength: 130 Mpa
- Tensile Strength: 62 Hz
- View Resistance: 0.32 wti
- Filler Load: 83.3 wt%
- Wear Resistance: 0.52 wt%
- Flexural Strength: 130 Mpa
- Wear Resistance: 0.52 wt%

### PROPERTIES
- Low: High Release Recharge
- Super-hard glass-ionomer for aesthetic and long-lasting restorations that release fluoride
- Responds to the concentration of fluoride in the mouth while maintaining the strength and stability of a composite resin
- In JADA, a major clinical study was published citing no secondary caries after 8 years, and 95% of luster was retained
- A follow-up clinical study to be published, after 13 years secondary caries were only found in 2 of the 61 restorations, with a retention rate of 86%
- Making it a great choice for pediatric care and high-caries risk patients
- In addition to the S-PRG fillers, discrete nano-fillers (10-20nm) have been included in the filler structure to obtain a filler load of 83.3 wt% for fast and easy polishing with an outstanding surface luster which retains over time.

### Surface Pre-reacted Glass-Ionomer (S-PRG)
- Superior handling
- High level of radiopacity
- Desired properties of glass-ionomers
- Fluoride release and recharge
- Biocompatibility
- Re-mineralization
- Long-term clinical stability
- Shade conformity (optical properties)
- Aesthetics close to natural teeth
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- Anti-plaque effect

### References
1. University of Florida study. Valeria V. Gordan, DDS, MS; Eduardo Mondragon; Ronald E. Watson, DDS, MAE; Cyndi Garvan, PhD; Ivar A.

### Composite with Fluoride Release and Recharge

**SUPPORTED BY UNIVERSITY OF FLORIDA 13 YEAR CLINICAL STUDY**

Reference:

1. University of Florida study. Valeria V. Gordan, DDS, MS; Eduardo Mondragon; Ronald E. Watson, DDS, MAE; Cyndi Garvan, PhD; Ivar A. 2013 IADR Poster Presentation, Gordan et al.
Create indistinguishable restorations with optical characteristics of natural teeth. The Beautifil II filler structure has been developed to simulate the internal structure of natural teeth with ideal light transmission and optical characteristics. The moderate translucency and light transmission of internal enamel combined with the light-diffusion of dentin offers predictable aesthetics with a close shade match to natural teeth.

Beautifil II 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. In aesthetically demanding cases additional shades can be used to achieve exceptional results.

- Sustained fluoride release and recharge
- Natural fluorescence
- High level of radiopacity
- Outstanding handling
- 13 years of clinical success

Surface Pre-Reaction Glass (S-PRG) ionomer cements are used as fillers in GIOMER and are obtained by reacting acid-reactive fluoride-containing glass with polyacids in the presence of water. These S-PRG fillers release fluoride and recharge. The Fluoride in GIOMER is responsible for:

- Reducing tooth mineral solubility;
- Decreasing the acid production of cariogenic bacteria.

Beautifil II is perfect for direct restorations that require optimum aesthetics and biocompatibility:

- Direct cosmetic tooth modifications
- Restoration of Class I – V cavities
- Restoration of cervical erosion and root caries
- Repair of fractured incisal edges
- Laminate veneers and core build-ups
Shade stability prior to and following curing

Fluorescence close to natural teeth

Exceptional radiopacity, 70% greater than enamel and 200% greater than dentin

Low-shrinkage formula delivers excellent physical properties

Easy sculpting without slumping or sticking with good thixotropic qualities

Completely and accurately seals margins

Supplied in pre-filled tips or syringes in a wide selection of shades. The “One Touch Cap” of the syringe enhances dispensing and delivery during build-up of restorations

Ideal light transmission and optical characteristics impart excellent shade reproduction with a chameleon effect by simulating the internal structure of natural teeth

High filler load and high flexural strength ensure long-term stability under rigorous intra-oral conditions for anterior and posterior restorations, direct laminate veneers and core build-ups

Anti-plaque effect minimizes plaque adhesion, inhibits bacterial colonization and plaque accumulation

Fast and easy polishing creates an outstanding surface luster that remains over time
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13 years of clinical success
Breathtaking II is an advanced nano-hybrid composite incorporating S-PRG (surface pre-reacted glass ionomer) technology that contains a stable phase of glass-ionomer for aesthetic and long-lasting restorations that release and recharge fluoride. Breathtaking II responds to the concentration of fluoride in the mouth while maintaining the strength and stability of a composite resin. In JAD, a major clinical study was published citing no secondary caries after 8 years, and 96% of luster was retained. In a follow-up clinical study (to be published), after 13 years secondary caries were only found in 2 of the 61 restorations, with a retention rate of 66%, making it a great choice for pediatric care and high-caries risk patients. In addition to the S-PRG fillers, discrete nano fillers (15–20nm) have been included in the filler structure to obtain a filler load of 83.3 wt% for fast and easy polishing with an outstanding surface luster which retains over time.

**NEW SHADES!**

**Breathtaking II**

**Fluoride Release & Recharge:** Yes

**Radiopacity:** 3.4 Al₂O₃ mm

**Wear Resistance:** 0.52 wt%

**Vickers Hardness:** 62 Hv

**Flexural Strength:** 130 Mpa

**PHYSICAL PROPERTIES**

- **Flowability:** 130 Mpa
- **Turbidity:** Hardness: 62 Hv
- **Weight:** 2.2 grams

**REFERENCES**

- Fjör, BDS, MSD, MS, Dr.odont. JADA, Vol. 138, May 2007
- Reference University of Florida study. Valeria V. Gordan, DDS, MS; Eduardo Mondragon; Ronald E. Watson, DDS, MAE; Cyndi Garvan, PhD; Ivar A.
Composite with Fluoride Release and Recharge

**PROPERTIES**

**PHYSICAL**
- Long term clinical stability
- High level of radiopacity
- Superior handling
- Glass-ionomers - re-mineralization
- Resistance to wear of posterior teeth
- Anti-plaque effect

**CHEMISTRY**
- Fluoride release and recharge: Yes
- Radiopacity: 3.4 Al : mm
- Wear Resistance: 0.52 wt%
- Flexural Strength: 130 Mpa
- Desired properties of glass-ionomers - aesthetic and long-lasting restorations that release fluoride.

**REFERENCES**
- 2013 IADR Poster Presentation, Gordan et al.
- Mjör, BDS, MSD, MS, Dr.odont. JADA, Vol. 138, May 2007
- Teeth Resistance to wear of posterior teeth
- Property). Aesthetics close to natural teeth

**FLORIDA 13 YEAR CLINICAL STUDY**
- In 2 of the 61 restorations, with a retention rate of 66%, making it a great choice for pediatric care and high-caries risk patients.

**Tooth Tooth**

**FLORIDA 13 YEAR CLINICAL STUDY**
- In addition to the study (to be published), after 13 years secondary caries were only found in the mouth while maintaining the strength and stability of a composite resin.

**BEAUTIFIL® II**
- A nano-hybrid composite incorporating S-PNG (surface pre-reacted glass ionomer) technology that contains a stable phase of glass-ionomer for aesthetic and long-lasting restorations that release and recharge fluoride.
- BEAUTIFIL® II responds to the concentration of fluoride in the mouth while maintaining the strength and stability of a composite resin.

**New Shades!**

**FINISHING AND POLISHING**
- Super-Finish Antibacterial 50g (Item No. 0766-3) 100g (Item No. 0767-3) 500g (Item No. 0768-3) 2kg (Item No. 0769-3) 5k (Item No. 0770-3) 10kg (Item No. 0771-3) 20kg (Item No. 0772-3) 50kg (Item No. 0773-3) 200kg (Item No. 0774-3) 1000kg (Item No. 0775-3) 10000kg (Item No. 0776-3)