

Breakthrough!



BioCoat™

Featuring SmartCap™ Technology

The only bioactive pit and fissure sealant that provides relentless protection through daily release of fluoride, calcium and phosphate ions.

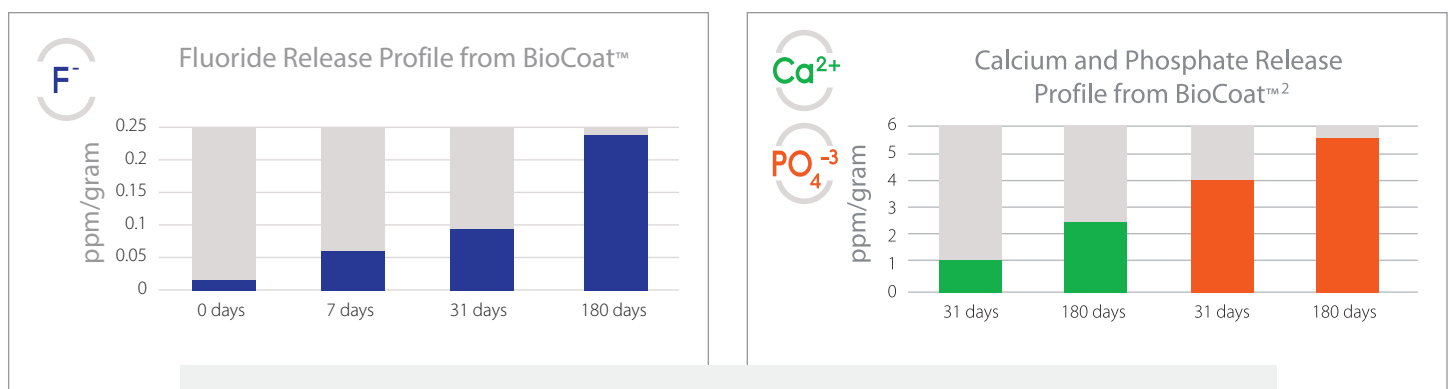


Bioactive Release - Remin - Recharge

Maximize protection with award-winning BioCoat™ Bioactive Resin Pit and Fissure Sealant. BioCoat with SmartCap™ Technology¹ maintains the strength and durability you'd expect from a heavily filled resin sealant, while providing the benefits of extended fluoride release.

BioCoat™ is the only resin sealant with bioavailable ions

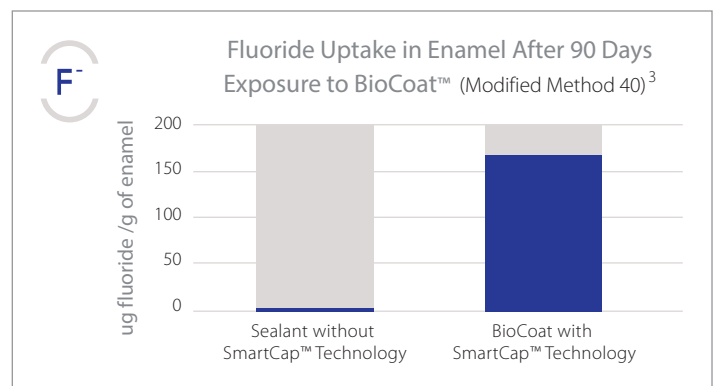
SmartCap Technology utilizes patented semi-permeable resin microcapsules filled with ionic solutions of fluoride, calcium and phosphate. The bioactive ions diffuse in and out of the sealant for long term release*.



Even after 6 months, fluoride, calcium and phosphate ion release continues at a significant rate.

Greater fluoride uptake for long-term protection

- Greater fluoride uptake in the presence of calcium and phosphate ions strengthens enamel.
- Excellent retention helps support remineralization and seal margins against microleakage and provide an extra line of defense during acid attacks.



SmartCaps are rechargeable

SmartCap microcapsules have the ability to recharge from free ions of fluoride⁴, calcium⁵ and phosphate⁵ found in saliva through concentration gradient dynamics.

1. Bibliography available upon request. / 2. A. Kava et al. "Controlled Release of Microencapsulated Remineralizing Agents from Pit-and-Fissure Sealants" IADR poster, Boston, 2015 / 3. S. M. Gross et al. "Pit and Fissure Sealant with Ion Permeable Microcapsules Promote Fluoride Uptake in Enamel" IADR poster, Boston, 2015 / 4. B. Burbank et al. "Enhanced Release of Toothpaste Originated Fluoride from Microcapsule-Containing Dental Materials" IADR poster, Boston, 2015 / 5. T. Greving et al "Two-way permeability of ion permeable microcapsules for remineralization" AADR Annual Meeting, March 21-24, Tampa, FL / 6. Testing by Mark A. Latta, D.M.D., M.S., GL Materials LLC / * Charts represent cumulative release data / UltraSeal XT® is not a registered trademark of Premier Dental.

Outstanding barrier protection

BioCoat™ is a 56% filled resin sealant providing excellent long-term resistance to wear with a compressive strength comparable to flowable composites. The resin formula is very resistant to oral solubility - a problem glass ionomer and resin-reinforced glass ionomers sealants cannot overcome.

Heavily Filled & High Compressive Strength

- Excellent retention and durable: resists cracking, chipping and fractures
- Lowers polymerization shrinkage and gap formation
- Maintains a smooth surface to avoid accumulation of plaque and debris

Excellent Flowability

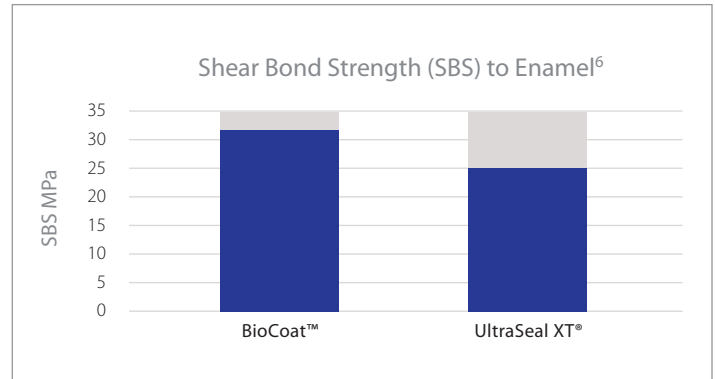
- Penetrates and adapts into the smallest pits and fissures for a secure seal
- Highly retentive (Shear bond strength of 32 MPa)
- Bubble-free application



Ordering Information

- 3001530 BioCoat Standard Pack
Contains: One 1.2ml syringe and five disposable applicator tips
Shade: White
- 3001535 BioCoat Applicator Tips
Contains: 100 disposable applicator tips
- 3001531 BioCoat Value Pack
Contains: Four 1.2ml syringes and 20 disposable applicator tips
- 3001532 BioCoat Bulk Pack
Contains: Twenty 1.2ml syringes

BioCoat is **not** formulated with Bisphenol A (BPA).



BioCoat's impressive shear bond strength of 32MPa ensures BioCoat's retention over the years.

See what the dental pros say!

"I've never been so impressed with a sealant...EVER!"

- Tim Bizga DDS, Cleveland, OH

"Extrudes smoothly without any bubbles- high gloss finish"

- Shalom Mehler DMD, Teaneck, NJ

"The potential remineralizing effect of BioCoat assures me that I am applying the most effective sealant on my patients' teeth! With its ease of use and bioactivity, BioCoat is the best choice for my patients' protective needs!"

- Malaina, RDH, Hewlett, NY

"As technologies continue to evolve in all phases in dentistry, we are excited about the long term prospects of BioCoat and its long-term ion release for promoting remineralization of enamel following acid attack."

- Lou Graham DDS, Chicago, IL

SmartCAP™ Technology

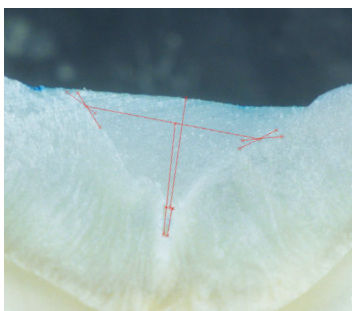
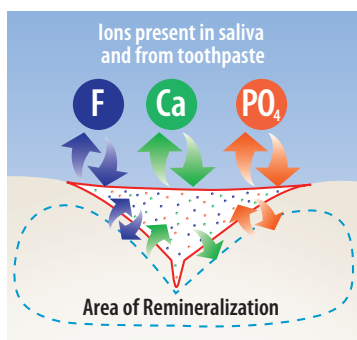


Figure A

Dye Penetration Microleakage Study

BioCoat's thixotropic properties allow for thorough penetration and adaptation into even the tiniest pits and fissures. No dye penetration indicates no microleakage.⁷




- Sealant
- - Area of Remineralization
-  SmartCap Microcapsules

Figure B

Schematic of clinical situation
seen in Figure A

SmartCap Technology, developed in partnership with Creighton University, utilizes patented** semi-permeable resin microcapsules.

In BioCoat, the rechargeable SmartCap microcapsules are filled with ionic solutions of fluoride, calcium and phosphate. Tooth surfaces, both in contact and adjacent to the sealant, benefit from the extended release of these ions. The demineralization cycle is disrupted and the remineralization is supported. The exchange of ions and recharge of microcapsules extends maximum protection without putting the sealant's physical integrity at risk.

Visit www.premusa.com/biocoat for more information.

**United States Patent Numbers: 9,119,774, 8, 889,161, 8,735,463

7. BioCoat Micrograph taken after Dye Penetration Microleakage Study (21 days at 37°C and then thermocycled for 2000 cycles)

BioCoat is easy to use:



1 Clean teeth thoroughly with a non-fluoridated prophyl paste or pumice, then etch for 20 seconds.



2 Rinse and dry the enamel surface.



3 While maintaining a clean, dry field, apply BioCoat sealant then light cure for 20 seconds.



4 BioCoat has a natural appearance but is visually discernible when air dried.

Clinical images courtesy of Shalom Mehler DMD, Teaneck, NJ.



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†. Data on file.

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