

# Premier's Enamelon<sup>®</sup> Preventive Treatment Gel

The Catapult Group presents its review on this unique, protective, remineralizing and moisture-enhancing preventive treatment gel.

[ by John C. Comisi, DDS., MAGD, Catapult Group member ]

**O**n a day-to-day basis, we dental clinicians battle with our patients against the ravages of tooth decay, dry mouth, hypersensitivity and periodontal disease. Wouldn't it be helpful to have a home treatment system that enables a level of success that has never been observed before in all these arenas?

The introduction of Enamelon<sup>®</sup> by Premier, a nonabrasive preventive treatment gel, has changed the home care landscape. It is the first formula to combine protective properties of amorphous calcium phosphate (ACP) technology<sup>1</sup> and stannous fluoride with a mucoadhesive copolymer called Ultramulsion<sup>®</sup>, which, according to the company, may increase substantivity and therapeutic performance of the active ingredients of the ACP and fluoride and create a great moisture-like feeling in the mouth. Ultramulsion<sup>®</sup> is a patented saliva-soluble, long-lasting coating that lubricates, soothes and moisturizes the soft tissues of the mouth. This is especially useful for patients with dry-mouth symptoms.

Interestingly, the amount of fluoride used in the product is substantially less than that found in the usual 5000 ppm fluoride toothpastes currently available. Enamelon contains just 970 ppm fluoride and yet, according to studies on the product, provides more than twice the fluoride uptake into enamel lesions<sup>2</sup> (Fig. 1) and three times greater reduction in enamel solubility as compared to our standard 5000 ppm fluoride



## Enamelon Preventive Treatment Gel

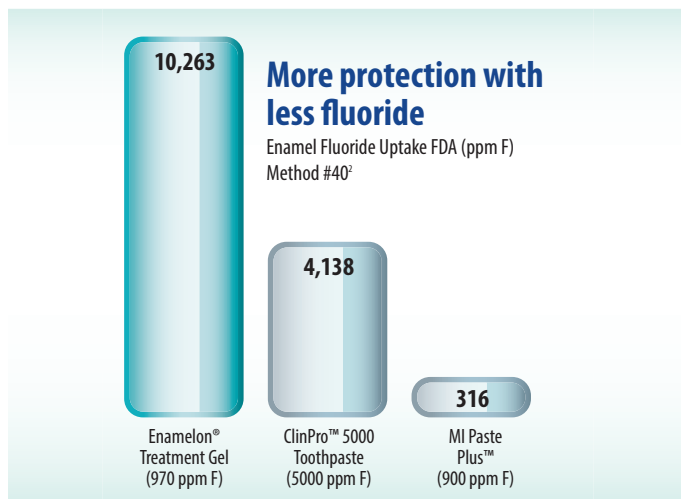
This product is designed to be a safe and effective alternative for patient home care compared to both 5000 ppm toothpastes and remineralizing pastes. The gel contains 970 ppm fluoride and is safe for daily use by patients of all ages to help treat sensitivity and prevent caries and gingivitis.\* A nonabrasive formula containing stannous fluoride and delivering amorphous calcium phosphate, Enamelon is formulated to deliver more fluoride uptake and help promote remineralization.

\*Dose based on age as per the 2014 ADA Recommendations.

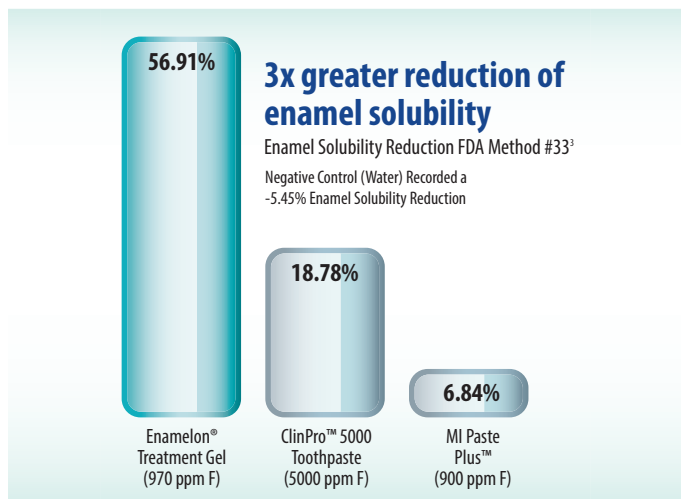
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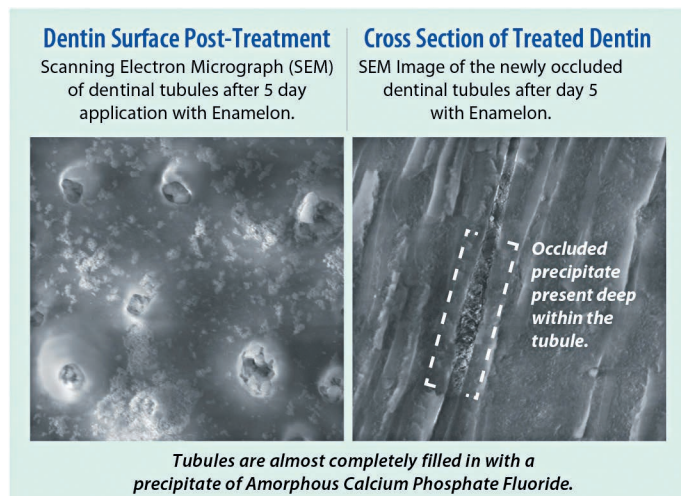
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▲ Fig. 1



▲ Fig. 2



▲ Fig. 3

toothpaste<sup>3</sup> (Fig. 2). That’s approximately 80 percent less fluoride than the prescription 5000 ppm toothpastes on the market today. The Ultra-mulsion ingredient, combined with the ACP and stannous fluoride, is at the heart of the remineralization enhancement found with the use of Enamelon. The delivery of the ACP aids in the remineralization of the tooth structure by providing the calcium and phosphate needed by the dental structure to help heal early cavitations in the enamel of the tooth and enhancing the mineral uptake and protection of exposed root surfaces<sup>4</sup>. These surfaces are especially susceptible to carious attack due to the lower mineral content of this structure as compared to enamel.

Enamelon’s unique, patent-pending combination of stannous fluoride and calcium and phosphate ions has also proven quite effective for tubule occlusion. Enamelon delivers a combination of stannous (tin) ions along with fluoride and calcium and phosphate salts that create a physical barrier that covers open dentinal tubules to prevent external stimuli from causing pain or discomfort. Fig. 3 contains scanning electron micrographs (SEM) showing how tubules are almost completely filled in with a precipitate of amorphous calcium phosphate fluoride, which is why Enamelon builds increasing protection against sensitivity of the teeth due to cold, heat, acids, sweets or contact.

This product also is free of dyes, gluten and sodium laurel sulfate (SLS). These ingredients are common in many over-the-counter and prescription dentifrices and have been linked in some research to adverse reactions in some patients. Finally, Enamelon is enriched with spilanthus, a natural herb that heightens the “clean mint” flavor and offers a refreshing finish.

Overall, Enamelon by Premier could become a “go-to” home treatment adjunct in every dental practice.

**Catapult group evaluation**

What the evaluators looked for:

- Taste was an important aspect because if the product is not appealing when used, compliance will become an issue.
- Was there a reduction in generalized tooth sensitivity when using Enamelon® that with long-term use could help with day-to-day compliance and potential reduction of new carious lesions?
- With the low abrasiveness of the product (Enamelon Preventive Treatment Gel has a very low relative dentin abrasiveness (RDA) of eight), was there an increase in the buildup of extrinsic stain during the evaluation?
- A prolonged experience by the patient of a fresh, smooth feel intraorally after using Enamelon.

**Features and benefits**

- Low fluoride concentration with greater benefits than 5000 ppm toothpastes. Safe for patients of all ages.<sup>5,6</sup>
- Stannous fluoride and ACP technology to enhance remineralization of tooth structure.
- Tubular occlusion of dentin tubules on root surfaces, decreasing tooth sensitivity.
- Very low abrasion of tooth surfaces<sup>7</sup> (RDA 8-Treatment Gel, compared to FDA upper standard of 200, which is highly abrasive).
- Pleasant tasting for improved compliance possibilities.

### Evaluator Findings

1. 90 percent of the respondents indicated their patients experienced a reduction in generalized tooth sensitivity using Enamelon treatment gel.
2. 95 percent of the respondents indicated they would incorporate Enamelon into their practices and offer it to their patients.
3. 74 percent of the respondents indicated there was no buildup of extrinsic stain in their patients during the evaluation of Enamelon.
4. 70 percent of the respondents indicated their patients liked the taste of Enamelon Preventive Treatment Gel.
5. 75 percent of the respondents indicated their patients experienced some type of prolonged fresh, smooth, slick feel in their mouths after using Enamelon.

### Conclusions

The results of this Catapult evaluation indicate the Enamelon Preventive Treatment Gel by Premier can offer many unique benefits in the care of their patients. We now have an opportunity to provide an at-home treatment regimen that can:

- aid in the enhancement of remineralization

- help reduce enamel solubility
  - reduce tooth sensitivity
  - reduce the challenges of dry mouth syndrome
  - is extremely low in abrasiveness and yet prevents extrinsic stain buildup
  - can be recommended as a product without dyes, gluten, typical allergens and SLS
- This is all in one product! This makes Enamelon a very appealing product to this distinguished group of key opinion leaders. Based on their feedback, incorporating Enamelon into dentists' armamentarium for use in their home offices is a sure thing! ●

### ABOUT CATAPULT

Catapult is an organization that consists of more than 50 clinicians spread throughout Canada and the United States. As a company, manufacturers pay a fee for their product to be evaluated, and Catapult delivers truthful, independent answers from surveys it develops with them. The organization has had many products that have either had to be altered before hitting the market or simply never arrived because of its openly honest evaluations. In this way, Catapult assists the manufacturer to avoid

potentially releasing a faulty product or one that needs refinement. Lastly, Catapult's clients are omnipresent in the industry, ranging from small to large, so there is no favoritism. It simply reviews the latest products in its practices.

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- > Treats Sensitivity
- > Soothes and Moisturizes Dry Mouth
- > Helps Prevent Caries and Gingivitis

#### **In a 2015 independent evaluation:**

90% of the respondents indicated their patients experienced a reduction in generalized tooth sensitivity using Enamelon Treatment gel.

95% of the respondents indicated they would incorporate Enamelon into their practices and offer it to their patients.

*Start your patients on Enamelon now.*



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