

VOCO Profluorid



Varnish +

BioMin®
Calcium &
Phosphate



VOCO Profluorid® Varnish + BioMin®

Dual-Action fluoride varnish formula that supports remineralization and long-term enamel protection



*For Canadian Audiences Only
Not available in the U.S.A.

VOCO
THE DENTALISTS

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SUPPORTING REMINERALIZATION

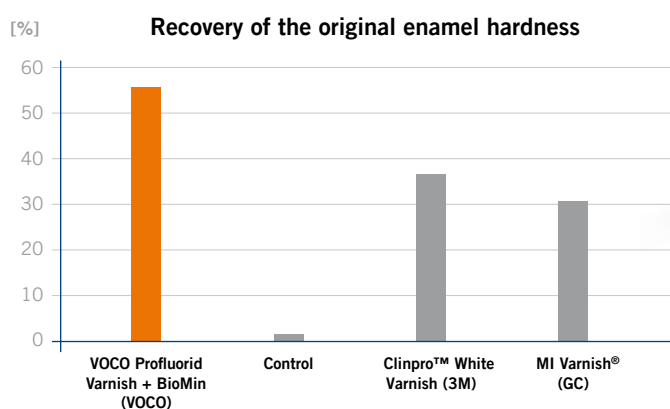
VOCO Profluorid Varnish + BioMin represents the next generation of fluoride varnishes, combining 5% sodium fluoride with bioactive BioMin bioglass for enhanced remineralization and long-term enamel protection. As the bioglass dissolves in saliva, it releases calcium and phosphate ions that work synergistically with fluoride to form a protective fluorapatite layer, strengthening enamel and helping to seal dentinal tubules. The result is effective desensitization paired with improved resistance to acid attack, delivering a true dual-action approach to preventive care.

VOCO Profluorid Varnish + BioMin – what's new?

VOCO Profluorid Varnish + BioMin is based on our desensitizing fluoride varnish VOCO Profluorid Varnish, which has been around for years and is tried and tested. New to the “+ BioMin version” is the addition of the soluble bioglass from BioMin Technologies Ltd. The BioMin bioglass was researched and developed in collaboration with Professor Robert Hill at the Queen Mary University in London.

The invisible and flavorless bioglass is already used with great success in other prophylaxis products, such as toothpaste. However, it is being used in a fluoride varnish for the first time. BioMin dissolves in the presence of saliva and releases large amounts of calcium and phosphate ions. Both of these ion types support the remineralization of the tooth. In combination with the fluoride from the varnish, crystalline structures form on the tooth surface, which significantly harden acid-weakened

enamel, for example. VOCO Profluorid Varnish + BioMin thus offers patients double protection: on top of the crystalline protective layer described, VOCO Profluorid Varnish + BioMin also possesses the properties of a comprehensive and long-lasting desensitization of sensitive teeth thanks to the fluoride it contains. The special aspect – VOCO Profluorid Varnish + BioMin achieves by far the best results in hardening weakened enamel of all the materials tested.



Hardness increase of the enamel in percent after acid attack using calcium and phosphate-containing fluoride materials

Source: Emily Thamby (BDS, MSc.), Queen Mary University, London

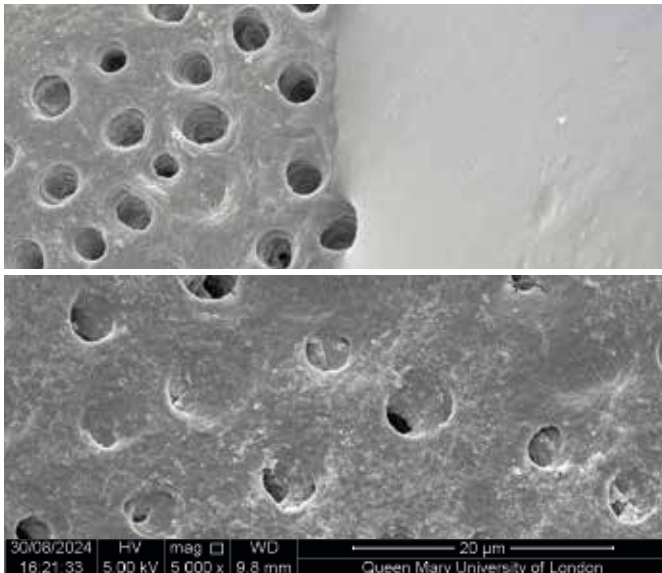


VOCO Profluorid® Varnish + BioMin®

DOUBLE YOUR PROTECTION

Reliable and effective desensitization

Just like our established varnish, VOCO Profluorid Varnish + BioMin has a 5 % sodium fluoride concentration ($\triangleq$ 22,600 ppm fluoride). The usual effectiveness of the desensitization is thus also guaranteed with the new version. Measurements from Emily Thambi, dentist and research associate at the Queen Mary University of London, show that VOCO Profluorid Varnish + BioMin seals the majority of open dentinal tubules safely and long-lastingly.



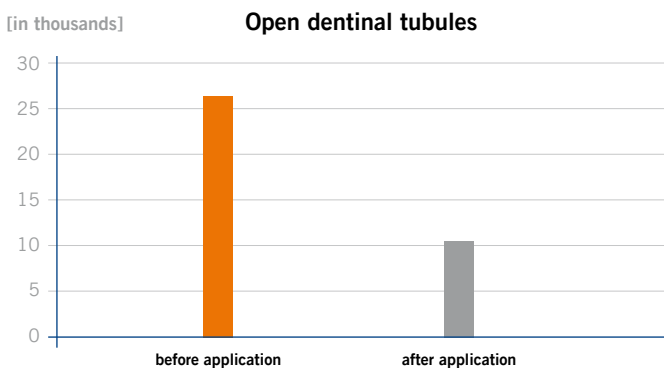
SEM images of the dentin before and after the application of VOCO Profluorid Varnish + BioMin

top left: non-treated dentin

top right: application of VOCO Profluorid Varnish + BioMin

bottom: dentin after application of VOCO Profluorid Varnish + BioMin

Source: Emily Thambi (BDS, MSc.), Queen Mary University, London

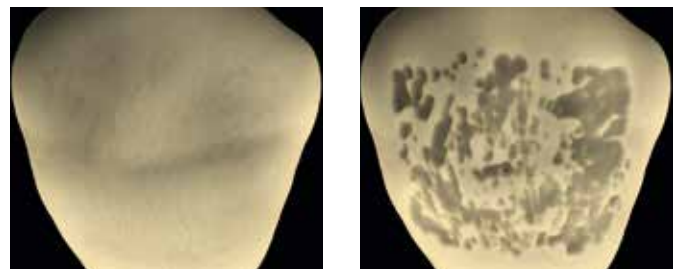


Number of open dentinal tubules per mm² before and after application with VOCO Profluorid Varnish + BioMin

Source: Emily Thambi (BDS, MSc.), Queen Mary University, London

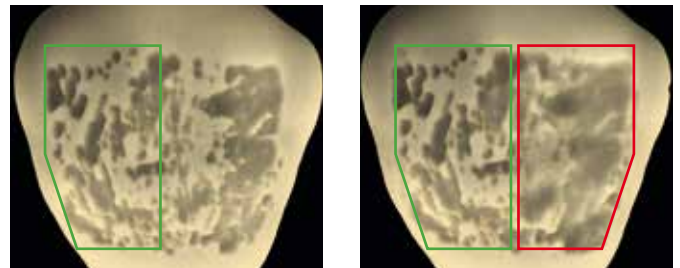
Protection against demineralization

In addition to the measurements on tubule closure and enamel hardening, protection against demineralization was also investigated. As the following graphics show, VOCO Profluorid Varnish + BioMin effectively protects against further acid attacks. A tooth was demineralized twice for a period of 2 days each time at a pH level of 4.5, with one half of the tooth being treated with VOCO Profluorid Varnish + BioMin between the first and second demineralization. The results clearly show that the side treated with VOCO Profluorid Varnish + BioMin shows practically no further demineralization, while the untreated side has changed significantly.



a) Initial situation

b) Demineralize for 2 days at pH 4.5



c) Half-sided application of VOCO Profluorid Varnish + BioMin. Dwell time 1 day

d) Demineralise again for 2 days at pH 4.5
left: treated with VOCO Profluorid Varnish + BioMin
right: non-treated

Source: Emily Thambi (BDS, MSc.), Queen Mary University, London

VOCO Profluorid® Varnish + BioMin®

SINGLEDOSE OR TUBE – THE CHOICE IS YOURS

Indications

Treatment of hypersensitive teeth
Treatment of sensitive root surfaces
Support of remineralization

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Advantages

- Innovative BioMin® bioglass delivers bioactive calcium and phosphate for enhanced remineralization support
- ADA recommended 5% sodium fluoride¹ content for full fluoride benefits ($\geq 22,600$ ppm fluoride)
- Rapid ion release over first 15 minutes with efficacy nearly doubling within 60 minutes
- Advanced Pro-Colophony for thin, clear application superior adhesion to the tooth for long-lasting fluoride release
- Great taste, smell and feel for outstanding patient satisfaction.

¹ Maguire A. ADA clinical recommendations on topical fluoride for caries prevention. Evid Based Dent. 2014 Jun;15(2). 38-9.



Presentation

Flavour	SingleDose 48 x 0.40 ml	SingleDose 50 x 0.40 ml	SingleDose 200 x 0.40 ml	Tube 10 ml
Caramel	–	REF 2270	REF 2276	REF 2266
Cherry	–	REF 2271	REF 2277	REF 2267
Mint	–	REF 2272	REF 2278	REF 2268
Bubble gum	–	REF 2273	REF 2279	REF 2269
Mixed	REF 2274	–	–	–



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