NEW PRODUCT BASED ON THE PROVEN CERAMIR TECHNOLOGY from Doxa BIO-CERAMIC

RESTORE QUIKCAP

Restored Certain Division by Division by

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www.ceramirdental.com

WHEN BIOACTIVITY MATTERS

Well-suited for use in pediatric and geriatric dentistry

Ceramir® Restore QuikCap is a resin-free and selfcuring bioceramic restorative material. By combining a conventional glass ionomer with the Ceramir technology, a tissue friendly and bioactive material is achieved.

It can be used in the same indications as the conventional glass ionomer restoratives but with the added benefit of lower acid solubility, better chemical integration with teeth and beneficial mineralization properties.

The continuous release of calcium and fluoride ions combined with a unique level of biocompatibility make this product especially well-suited for use in pediatric and geriatric dentistry.

When to use Ceramir Restore QuikCap:

RESTORATIVE

100% RESIN FREE

- Non-load bearing Class I and II restorations
- Deciduous teeth restorations
- Geriatric restorations
- Intermediate restorative and base material for Class I and II cavities using the sandwich technique
- Cervical (Class V) restorations
- Core build ups
- Temporary fillings
- Dentin replacement

RESTORE QUIKCAP

Permanent seal of tooth-material interface

Ceramir Restore QuikCap is part bioceramic and part glass-ionomer and utilizes both chemistries to create chemical integration and a permanent seal with teeth. Glass ionomers bond to the tooth structure by the attraction between the polyacid and the dentin mineral. The bioceramic material forms a chemical seal by growing its crystals directly from the tooth structure [1].

Ceramir Restore QuikCap has the ability to protect

itself against acid attack by releasing hydroxyl ions

and neutralizing the acid. While releasing hydroxyl

ions the surface remodels and a dense and acid

lower acid erosion than other conventional glass

resistant surface is achieved, resulting in much



Products within the Ceramir family all induce apatite formation [2], which heals the material by filling crevices and sealing small interfacial gaps [3].

CERAMIR RESTORE BEFORE

Durable

ionomers [4].

CERAMIR RESTORE IN PBS 7 DAYS

CONVENTIONAL GLASS IONOMER IN PBS 7 DAYS





4

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The durability and esthetic appearance of the restoration is increased by dry polishing the surface [4].



Time

Low post-op sensitivity

The Ceramir technology has been shown to reduce the sensitivity both during and after preparation [5]. This has been attributed to the alkaline pH during curing [4] as well as the celland biocompatibility of the material [6].



Strengthening of the surrounding dentin and enamel

Ceramir Restore QuikCap has a continuous calcium and fluoride release. Fluoride is well used within dentistry to help strengthen enamel, which it does by the formation of fluoride substituted hydroxyapatite.

The calcium release combined with the alkaline pH create an optimal environment to rebuild the surrounding dentin and enamel. The Ceramir technology has been shown to rebuild and strengthen the dentin after an attack by caries [7].





Key advantages:

Permanent seal of tooth-material interface

RESTORE

QUIKCAF

- Chemical integration with teeth
- Apatite formation

Durable

- Neutralizes acid attack
- Low acid solubility
- Dry polish for a more durable surface

Low post-op sensitivity

Alkaline pH during curing

Strengthening of the surrounding dentin and enamel

- Continuous fluoride release
- Continuous calcium release

[1] H. Engqvist et al., Chemical and biological ntegration of a mouldable bioactive ceramic material capable of forming apatite in vivo in teeth, Biomaterials 2005

[2] J. Loof et al., A comparative study of the bioactivity of three materials for dental applications, Dental materials, 2008

[3] S.R. Jefferies et al., Preliminary Evidence That Bioactive Cements Occlude Artificial Marginal Gaps, Journal of Esthetic and Restorative Dentistry 2015 [4] Data on file, Doxa Dental AB

[5] S.R. Jefferies et al., Prospective Observation of a New Bioactive Luting Cement: 2-Year Follow-Up, Journal of Prosthodontics 2011

[6] J.C. Marvin et al., In Vitro Evaluation of Cell ompatibility of Dental Cements Used with Titanium Implant Components, Journal of Prosthodontics, 2018

[7] L.S. Alhuwayrini, Dentin Remineralization Around Ceramir Restoration, thesis from University of Pennsylvania 2016

Shade development



After treatment



24 hrs in PBS



6 min, 1 day, and 7 days.