Protective Sealant for Treatment of Hypersensitive Dentin

TOKUYAMA

SHIELD FORCE

PLUS

Shields You from Dentinal Hypersensitivity!

+ Quick and Effective Treatment of Hypersensitive Dentin
+ Superior Sealing Effect
+ Durable Coating Effect
+ Simple Procedure

Only One Application, No Rinsing, No Rubbing Required.

Tokuyama Dental
Mechanism of Hypersensitive Dentin

Dentin hypersensitivity is widely said to be caused by rapid fluid movement in the dentinal tubules.

Sealing tubules with TOKUYAMA SHIELD FORCE PLUS

Applying TOKUYAMA SHIELD FORCE PLUS infiltrates and seals exposed dentinal tubules inhibiting the flow of fluid through the tubules which is the cause of sensitivity.

Quick and Effective Treatment of Hypersensitive Dentin

TOKUYAMA SHIELD FORCE PLUS reduces dentinal hypersensitivity immediately after applying, by utilizing Tokuyama’s patented technology “Self Reinforcing Monomer (SR Monomer)” it interacts with the calcium ions sealing the dentinal tubules. The air drying step ensures the formation of a thin protective resin layer over the dentin surface and resin tags in the tubules, the final light curing step polymerizes them to solidify.

Clinical Procedure and Schematic Diagram of Self Reinforcing Technology
Superior Sealing Effect

When used in clinical cases under direct/in-direct restorations, TOKUYAMA SHIELD FORCE PLUS will alleviate and/or prevent tooth sensitivity caused by cold water and air pressure during the preparation, simultaneously protecting the tooth from bacteria and unexpected contamination to the dentin. Thanks to the superior sealing effect, TOKUYAMA SHIELD FORCE PLUS will also alleviate and/or prevent post operative sensitivity.

Durable Coating Effect

TOKUYAMA SHIELD FORCE PLUS is effective in reducing abrasion and/or erosion of exposed cervical dentin by creating a durable coating layer when light cured. Thanks to the Self Reinforcing Monomer it demonstrates significant durability against toothbrush abrasion regardless of the thin layer that is formed.

Toothbrush Abrasion Test (10,000 cycles)**

The layer of TOKUYAMA SHIELD FORCE PLUS exhibits only 1.5 μm of wear while Seal & Protect® exhibits 8.4 μm of wear after the test.

Thermal Cycle Test (10,000 cycles) 4°C - 60°C**

TOKUYAMA SHIELD FORCE PLUS layer remains over the dentin surface after the test.

Seal & Protect®

The layer of Seal & Protect® has washed out and exposed dentin surface was observed after the test.

*Not a registered mark of Tokuyama Dental Corporation.
** In-house data, R&D, Tokuyama Dental Corporation.
Simple Procedure

No rinsing and no rubbing is required when applying TOKUYAMA SHIELD FORCE PLUS, making it patient friendly during the application. The procedure is simple and quick; only 1 application of TOKUYAMA SHIELD FORCE PLUS, air dry and light cure, only 30 seconds to greater patient comfort with long term results.

1 Treatment of dentinal hypersensitivity / Coating of exposed cervical dentin

1. Dispense

2. Apply TOKUYAMA SHIELD FORCE PLUS, then leave for 10+sec

3. Apply weak air (5sec) → Strong air (5+sec)

4. Light cure for 10+sec

2 Sealing of prepared tooth to alleviate / prevent tooth sensitivity (Direct Restorations)

1. Dispense

2. Apply TOKUYAMA SHIELD FORCE PLUS, then leave for 10+sec

3. Apply weak air (5sec) → Strong air (5+sec)

4. Light cure for 10+sec

* If using a total etch bonding system, etchant must be applied "AFTER" TOKUYAMA SHIELD FORCE PLUS procedure.

3 Sealing of prepared tooth to alleviate / prevent tooth sensitivity (Indirect Restorations)

1. Dispense

2. Apply TOKUYAMA SHIELD FORCE PLUS, then leave for 10+sec

3. Apply weak air (5sec) → Strong air (5+sec)

4. Light cure for 10+sec

5. Wipe unpolymerized layer with alcohol

*** Before taking impression, it is essential to wipe dentin surface with alcohol, removing unpolymerized layer of TOKUYAMA SHIELD FORCE PLUS that could prevent an accurate impression.

*** Do NOT use temporary resin-based material, it may adhere to the cured TOKUYAMA SHIELD FORCE PLUS. The use of water-based cement would be recommended for temporary cementing, and temporary stopping would be recommended for temporary filling.

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TOKUYAMA SHIELD FORCE PLUS

1. TOKUYAMA SHIELD FORCE PLUS Kit
   - Bottle 3mL x 1
   - Disposable applicator (Superfine) x 25
   - Dispensing Well x 1

2. TOKUYAMA SHIELD FORCE PLUS Refill
   - Bottle 3mL x 1

Specifications are subject to change without obligation on the part of the Manufacturer

Manufactured by Tokuyama Dental Corporation
38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
TEL: +81-3-3835-2261 FAX: +81-3-3835-7224
URL: http://www.tokuyama-dental.com