

VinciSmile®

TrusFIL

Direct Restorative Solutions

- Much Simpler
- More Durable
- More Smiles

A fully aligned system to achieve high-quality and efficient esthetics

HUGE

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Direct restorations are those that can be entirely fabricated and completed inside the mouth and do not require the use of a dental laboratory. Since they can be completed without the use of a dental laboratory, they can usually be completed during a single dental appointment and don't require the use of a provisional, or temporary restoration.

However, high esthetic natural tooth-like look is required for direct restorations, the restoration result depends on both clinicians' experienced professional operations and superior composite restoratives.

VinciSmile offers you a highly aligned direct restorative system, containing everything you need in direct restoration, helps you achieve a simple, durable and satisfying restoration result.



VinciSmile TrusFIL Direct Restorative Solutions

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Shade Selection

2

Dental Pretreatment

3

Adhesive Application

4

Restoration

5

Protection

Shade Selection

Dental Pretreatment

Adhesive Application

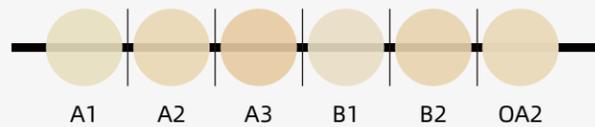
Restoration

Protection



TrusFIL Universal Composite Restorative

10 shades, 3 opacities
for highly esthetic single-shade and multi-shade restorations



TrusFIL-Flow Flowable Composite Restorative

6 shades, 2 opacities

TrusFIL X-Blend Universal Composite Restorative

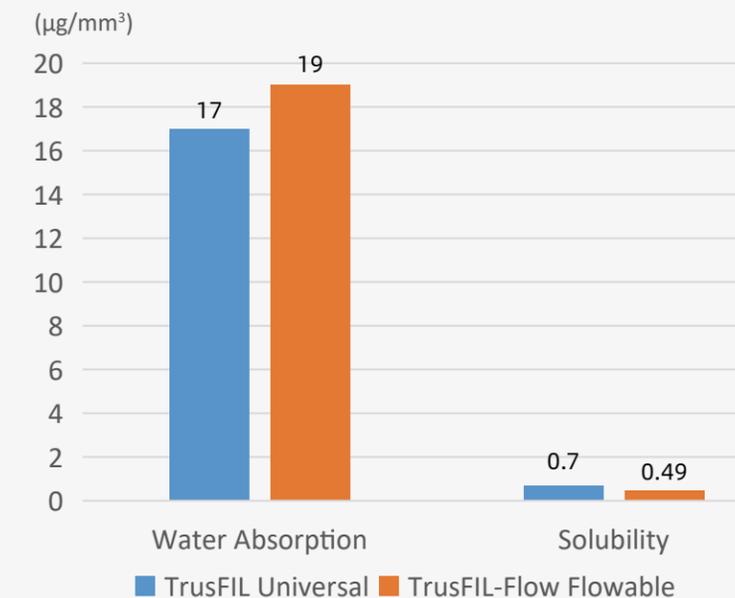
One-shade universal composite restorative for enhanced productivity, streamlined inventory control and minimized material waste

Shade selection tips for esthetic restoration

- Select the shade in natural light.
- Composite restorations should emulate the optical characteristics of natural teeth.
- Different shades should be utilized for dentin, enamel and incisal edge restorations.

A natural, aesthetically satisfying direct restoration result requires an artistic shade system providing beautiful tooth-like look, as well as high efficiency. TrusFIL Composite Restoratives are designed to make highly esthetic, single shade restorations much simpler.

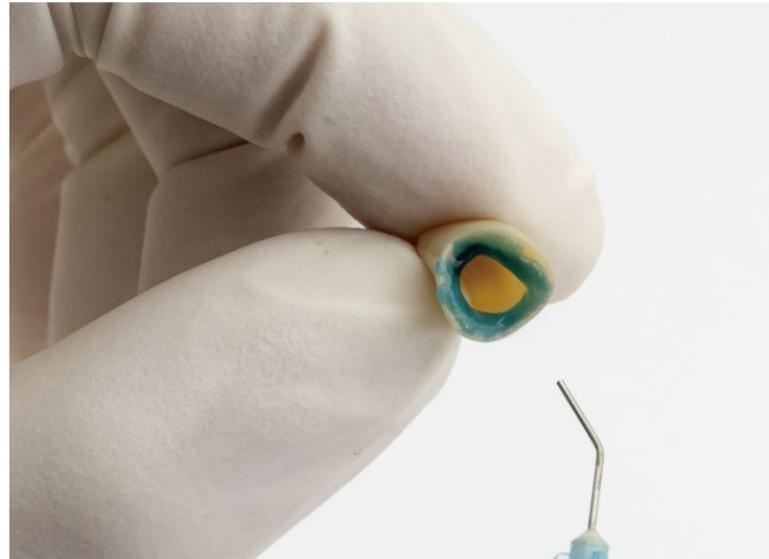
TrusFIL is optimized for esthetics, provides multiple shades in 3 different opacity levels to make a perfect natural match to dentition. TrusFIL offers additional improved handling of translucent shades, excellent polishability and polish retention. At the same time, TrusFIL features amazing color stability due to ideally low water absorption and solubility.



*Data from VinciSmile Lab

A thorough pre-treatment, which includes cleaning, etching, drying steps, can lead to dramatic changes in practice of direct restorations.

Acid etching as a crucial step, utilizes phosphoric acid material, roughens up the enamel of the tooth in preparation for the application of adhesive, and effectively enhances bonding strength and the retention of composite restoratives.



P-Etchant Phosphoric Acid Etching Gel

37%W/W concentration for strong bond

- Eliminate the surface dirt and fouling from enamel and dentin
- Roughen the enamel and dentin surface effectively.
- Fully open dentine tubules, which is easier for adhesive to penetrate and form resin protrusion.
- Bright blue color can be easily differentiated from the tooth.
- Consistent material thickness ensures simple and effective application.

Etching Techniques



Self-etch
(No phosphoric acid)



Selective etch
(Phosphoric acid on
enamel only)



Total etch
(Phosphoric acid on
enamel and dentin)

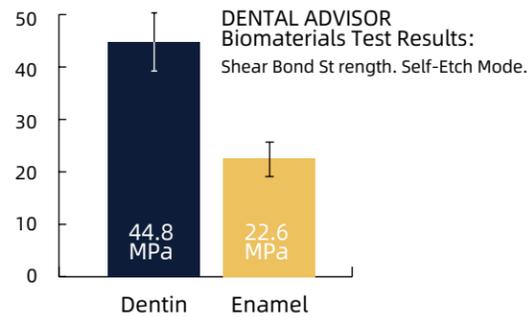
- Self-etch: Take away some of the technique sensitivity of etching dentin with phosphoric acid.
- Selective-etch: Allow a deep acid etch on the enamel margins while maintaining the benefits of a self-etch product, including low postoperative sensitivity and moisture tolerance on dentin.
- Total-etch: Ensure a thorough etch pattern on the surface of the enamel and the removal of the smear layer on dentin.



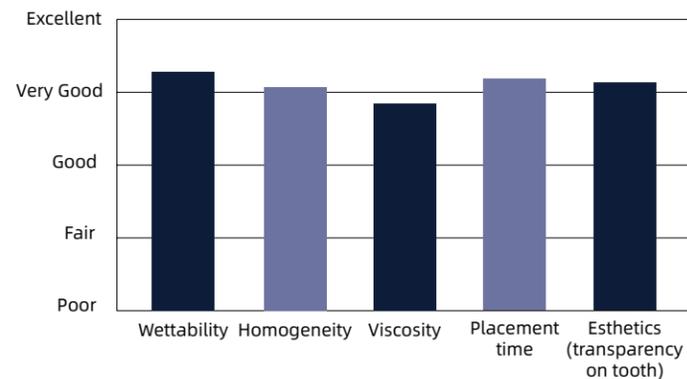
Adhesive offers additional strong bonds to the final direct restoration. There are too many options to choose, but universal adhesive is the top recommendation.

Simple, Efficient, Versatile.....

HugeBond Universal is the latest innovation with one-bottle technique and highly reliable bonding strength. With no need of a separate primer or complicated bonding process, universal adhesive maximizes efficiency in practice by offering stronger and long-lasting bonding result, and is widely used in both direct and indirect restorations.



Evaluation Summary:



*Data from Dental Advisor



HugeBond Universal FliPro

- MDP monomer
- Single component
- 8th generation

Used in self-etch, total-etch and selective-etch procedures

- Compatible with light-cured, dual-cured, and self-cured cements
- Reliable bonding in both direct and indirect restorations
- Formulated with MDP monomer that enhances chemical adhesion to direct and indirect restorations, such as dentin, enamel; composite, metal, and zirconia, etc.

HugeBond Universal Technical Parameters		
Bonding Strength	Self-etched dentin/MPa	30.4
	Self-etched enamel/MPa	25.4
	Etched enamel/MPa	30.3
pH		2.7
Film thickness		<3µm



New Flip-Open cap design for single-hand operation.



Special nozzle design for accurate amount control.



Essential to the science and artistry of direct free-hand restoration, creativity enables dentists to devise and execute esthetic restorations using composite restorative system.

A thorough composite restorative system simplifies the practice, streamlines the whole process without compromising performance. It's accepted that striking a well balance between high efficiency and natural esthetics is the gold standard for a successful direct restoration.

Class II restoration



Class IV restoration



* Photo courtesy of Dr. Cindy.

TrusFIL Composite Restorative System

Composed of well-coordinated composites, ensures a time-saving workflow and natural- tooth-like esthetics.

- TrusFIL Universal Composite Restorative
- TrusFIL-Flow Flowable Composite Restorative
- TrusFIL X-Blend Universal Composite Restorative



Composite selection tips for direct restoration

Fracture Resistance

When building the incisal edge, Class IV incisal buildups, and restoring worn dentition, composites that withstand the rigors of occlusion and mastication are required. Wear resistance is a necessary characteristic of direct composites in order for restorations to maintain surface texture and anatomy.



Polishability

Composite resins must also provide high polishability to mimic the gloss of natural enamel. Although composite restorations may exhibit a great final polish when the patient leaves the office, the long-lasting polish requires more to composites.



Color Stability

Polymerization and polishing can affect color stability, as can a patient's dietary and other habits. Top-quality composites should demonstrate excellent color stability over years.



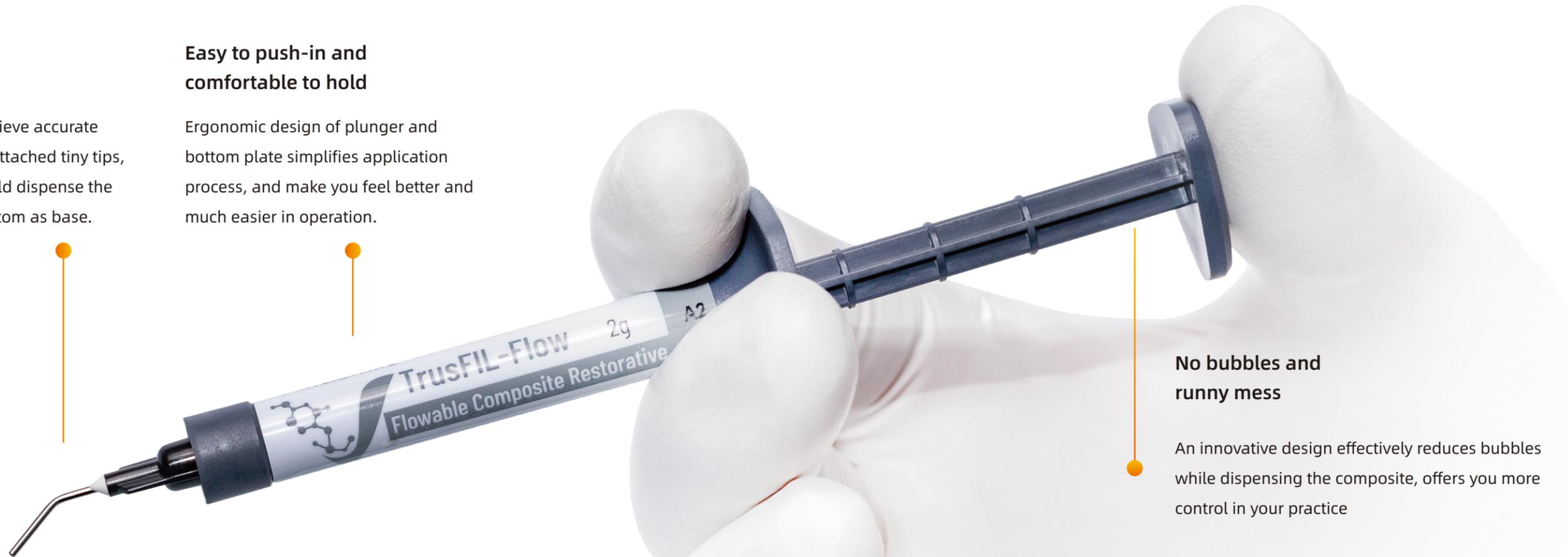
TrusFIL-Flow Flowable Composite Restorative

Tiny tips for accurate placement

TrusFIL-Flow enables you to achieve accurate composite placement with the attached tiny tips, even in the deep cavity, you could dispense the composite down on uneven bottom as base.

Easy to push-in and comfortable to hold

Ergonomic design of plunger and bottom plate simplifies application process, and make you feel better and much easier in operation.



No bubbles and runny mess

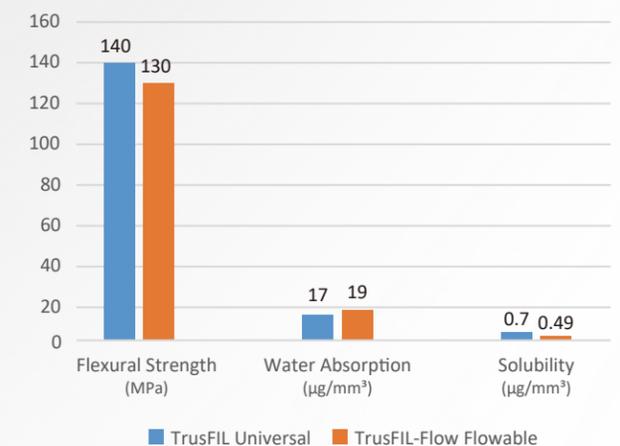
An innovative design effectively reduces bubbles while dispensing the composite, offers you more control in your practice

Optimized for both esthetics and efficiency, TrusFIL Universal, TrusFIL-Flow and TrusFIL X-Blend are indicated for Class I to V restorations.



Featuring multi-shades, satisfying viscosity, and self-leveling technology, **TrusFIL-Flow** is an ideal injectable, can be applied as base/liner to create a perfect plane for subsequent restoration. The overall syringe design virtually eliminates bubbles and runny mess during dispensing.

TrusFIL Universal, TrusFIL-Flow and TrusFIL X-Blend form a fully aligned composite restorative system, allow the restoration to withstand wear and maintain optimum esthetics during its service.



*Data from VinciSmile Lab

TrusFIL Universal Composite Restorative

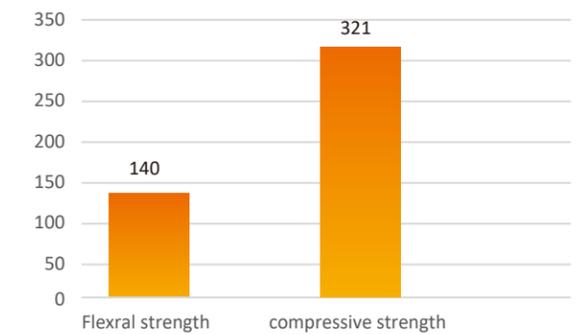
TrusFIL Universal Composite Restorative stands out among composites due to its impressive strength and polish retention imparted by VinciSmile nanotechnology. Meanwhile, TrusFIL Universal is available in 10 shades and 3 opacities, allowing dentists to easily deliver results that meet patients' esthetic needs. It is radiopaque, taking the guesswork out of future radiographs.



What makes TrusFIL Universal stand out:

- VinciSmile nanotechnology strikes a balance between high esthetic results and sufficient flexural and compressive strength by offering special nanostructured fillers (80% by weight and 30% by volume).
- Upgraded formula ensures brilliant non-stickiness for convenient handling without compromising strength. New syringe design equips you with easier flip-open experience and better control of amount.
- TrusFIL delivers exceptional performance with multiple indications and two delivery specifications, both syringes and capsules.
- 10 shades available to meet your esthetic needs. Head to TrusFIL X-Blend for a hassle-free color-matching experience.

Shades	Curing depth	Curing time	
		Light intensity 600~1000 mW/cm2	Light intensity >1000 mW/cm2
Light (A1, A2, B1, B2)	2mm	20s	10s
Dark (A3, A3.5, B3, C2, C4, OA2, BL)	1.5mm	40s	20s



* All data from VinciSmile lab

*Water absorption/ $\mu\text{g}/\text{mm}^3$	17/ $\mu\text{g}/\text{mm}^3$
*Water solubility/ $\mu\text{g}/\text{mm}^3$	0.7/ $\mu\text{g}/\text{mm}^3$
*Polymerization shrinkage/%	1.06%
*Depth of curing(A3 shade)/mm ³	2.49mm

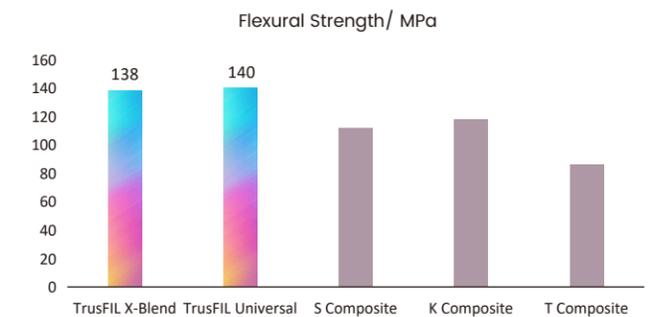
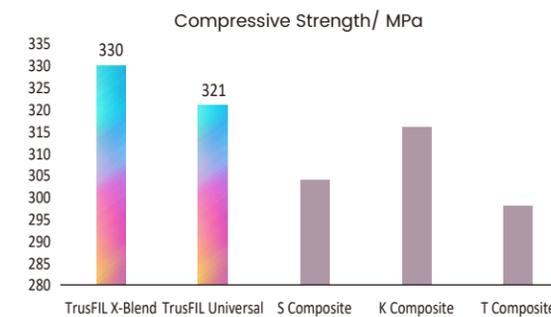
* All data from VinciSmile lab

TrusFIL X-Blend Universal Composite Restorative

TrusFIL X-Blend is a one-shade universal composite restorative for enhanced productivity, streamlined inventory control and minimized material waste. Due to TrusFIL leading filler technology, it delivers an amazing shade-matching magic without compromising strength.

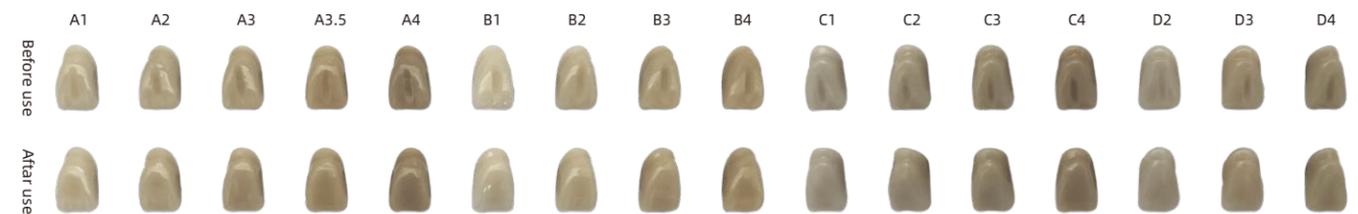
Indications:

- ✓ Direct restorations for anterior and posterior teeth and occlusal surfaces
- ✓ Indirect restorations including inlays, onlays and veneers
- ✓ Core Build-ups
- ✓ Splinting



▲ Compared to TrusFIL Universal, TrusFIL X-Blend shows a quite similar performance in practice, and provides an easier operation.

Perfect Aesthetic Results



Flexural Strength/Mpa	138 Mpa
Polymerization shrinkage/ %	0.8 %
Elastic Modulus/ GPa	11.5 GPa
Water Absorption/ $\mu\text{g}/\text{mm}^3$	18.2 $\mu\text{g}/\text{mm}^3$
Solubility/ $\mu\text{g}/\text{mm}^3$	0.5 $\mu\text{g}/\text{mm}^3$
Depth of Curing/ mm	3.5 mm

* All data from VinciSmile lab



Pro Shield

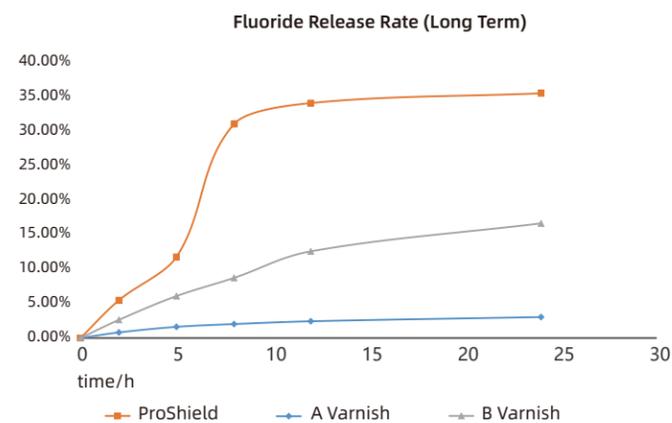
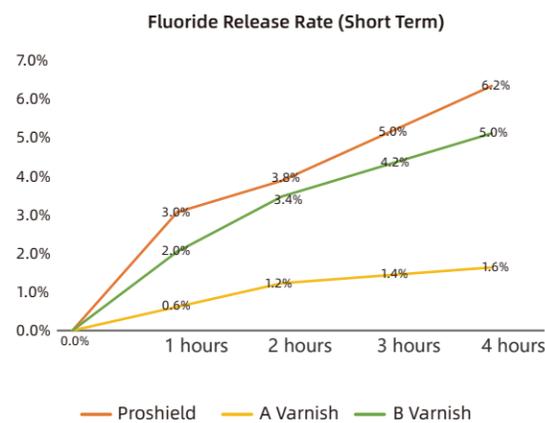
- Safe, Reliable, and Convenient Fluoride Protection

What Makes Pro Shield a Smarter Choice?

- Stable and long-lasting fluoride release — 22,600 ppm fluoride
- Relieves hypersensitivity
- Easy to apply, no drying needed
- Hexane-free formulation ensures safety
- Pleasant fruit flavor improves patient experience
- Unique packaging design facilitates clinical operation
- Light yellow color from natural resin provides visual control

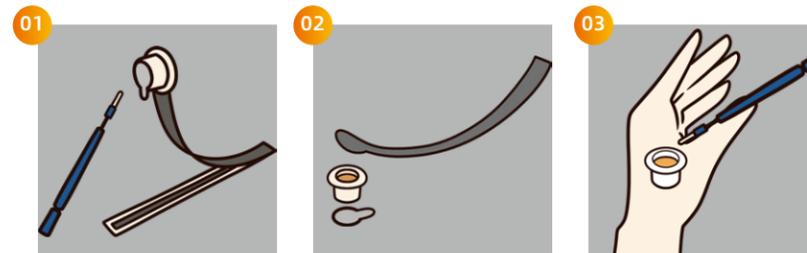


High Fluoride Release capability suitable for Kids and Adults



*Data from VinciSmile Lab

How to Use the Unit-dose Packaging?



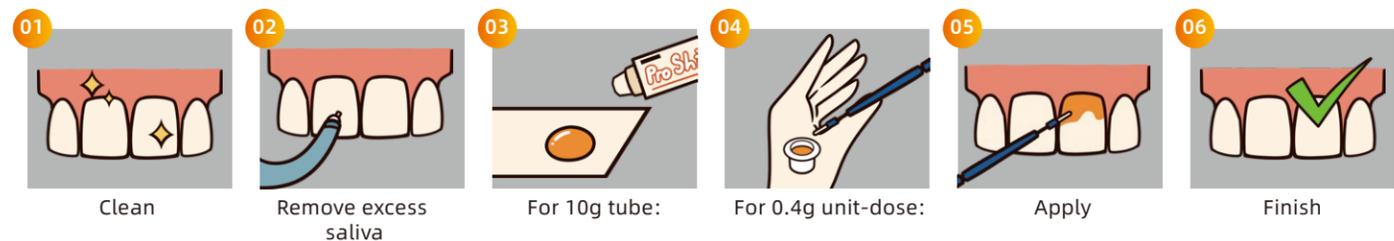
1. Peel off the sealing film of the applicator brush and take it out
2. Peel off the varnish sealing film and the bottom release film.
3. Stick the varnish container in a convenient position



Packaging

- 10g/tube - 0.4g*50/box

Excellent Operation Experience with Pro Shield



Clinical application suggestions:

1. Recommended dosage:

Deciduous dentition ≤0.25g (5.65mg fluoride)
 Mixed dentition ≤0.4g (9.04mg fluoride)
 Permanent dentition ≤0.75g (16.95mg fluoride)

2. Frequency of use:

Use once every **3-6 months**.

3. Precautions after use:

After using this product, do not brush the teeth, chew food, or drink hot drinks and alcoholic products (beverages, mouthwash, etc.) within **4 hours**.

