

GC



# RESTORE & REINFORCE

**everX Flow™**

Fibre-reinforced flowable  
composite where core  
strength matters

# everX Flow™

The toughest composite substructure to reinforce your restorations

- Two shades for every clinical need

- Incredible strength with high fracture toughness



- Easy application

- Ideal choice for any restoration

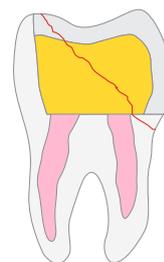
Discover **everX Flow**, a short-fibre reinforced flowable composite designed to replace dentine and reinforce restorations incorporating unique microfibre and full silane coverage technologies, by strengthening restorations and preventing them from cracking.

With its easy application, its two shades and its incredible strength, **everX Flow** is about to become your new go-to product for all your restorations including posterior restoration for dentine replacement under composite or use as a core under indirect prosthesis.

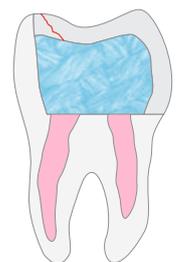
## A superior fracture toughness for durable large restorations

Most composites are not able to equal dentine when it comes to resistance to fracture. **everX Flow** overcomes this issue and possesses an **excellent fracture toughness close to that of dentine**, thanks to a **high amount of short fibres** strongly bonded to the resin matrix. This enables the material to **efficiently reinforce large posterior restorations**, in combination with a conventional composite as enamel layer.

Conventional composite



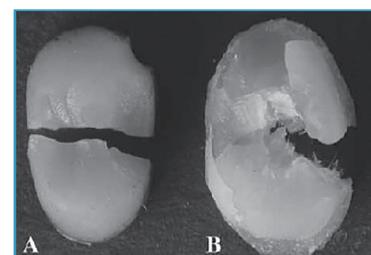
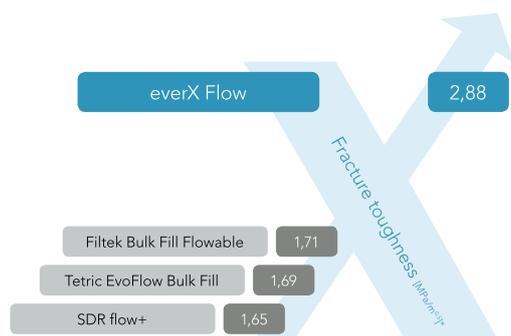
Fibre-reinforced composite



**everX Flow** provides maximum reinforcement for optimum fracture resistance

## Optimal Aspect Ratio (OAR) Technology & Full coverage Silane Coating (FSC)

Due to these technologies the fibre reinforced composite structure supports composite restoration & serves as a crack-prevention layer.

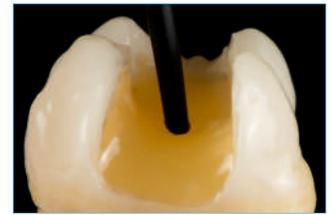


Garoushi S, Vallittu PK, Lassila L. Fracture resistance of short, randomly oriented, glass fiber-reinforced composite premolar crowns. Acta biomater 2007;3:779-784.

\*Source: GCC R&D - Data on file. Test performed following ASTM E399-90 (1997).

## Perfect thixotropy for an **easy placement** and a **great adaptation**

everX Flow adapts to every preparation thanks to optimal thixotropy and controlled flow, allowing ease of placement without slumping.



## Two shade options for **greater flexibility**



### Translucent shade

Optimal for **deep posterior cavities**

Depth of cure: 5.5mm



### Dentin shade

Optimal for **more aesthetic results** and for **core build-up**

Depth of cure: 2.0mm

## Indications

everX Flow - the first choice for

- Dentine replacement:
  - beneath any posterior cavity, including large and deep cavities
  - following crack diagnosis
  - following amalgam removal
  - where inlays and onlays would also be recommended
  - beneath any direct composite or indirect ceramic restoration under heavy occlusal load
- Core build-up under indirect prostheses, including post and core substructures
- Substructure for endodontically treated teeth



## User Guide

The biomimetic restorative technique, using SFRC (short fibre-reinforced composite) substructures, can be used routinely for coronal restorations and teeth with large cavities in high stress-bearing areas.\*

### Core build-up preparations



1 Initial situation.



2 Apply, air dry and light-cure bond.



3 Build the core with everX Flow.



4 Light-cure, for 20 sec. per layer.



5 Contour and finish core, final preparation.

### Direct restorations



1 Prepare the cavity.



2 Bond and light-cure.



3 In the case of a Class II cavity, first build the missing walls with a conventional composite.



4 Fill the cavity with everX Flow.



5 Light-cure for 20 sec. per layer.



6 Cover with a conventional composite (1-2mm thickness)

\*Garoushi S, Gargoum A, Vallittu P, Lassila L. Short fibre-reinforced composite restorations: A review of the current literature. Dental Biomaterials 2018

## Clinical observations

### Extensive preparations, including missing cusps and amalgam replacements



Dr Georg Benjamin, Germany

### Class II preparations



Dr Rudolf Novotny, Slovakia

### Endodontically-treated teeth



Dr Lucile Dahan, France



## Q & A

- **What is the filler loading of everX Flow?** everX Flow has a filler loading of 70% by weight.
- **What are the fibres in everX Flow?** everX Flow contains E-glass micro fibres. The average fibre length is 140µm and the average diameter is 6µm.
- **What are the filler particles in everX Flow?** everX Flow contains barium silicate glass filler particles with an average size of 700nm.
- **What is the resin matrix of everX Flow?** everX Flow contains Bis-EMA and UDMA resin. It does NOT contain Bis-GMA.
- **What is the radiopacity of everX Flow?** everX Flow is easily detectable radiographically with a radiopacity of 223%Al.
- **Should everX Flow always be fully covered with a conventional composite?**  
Yes, everX Flow should always be fully covered with a conventional composite, 1-2mm thick, including the interproximal area of 0.5mm, as the fibres inside the material can lead to a rough surface if left uncovered.
- **Is it better to use a paste or an injectable composite resin to cover everX Flow?**  
Both paste and injectable composites can be used to cover everX Flow, as long as their physical properties are sufficient. The choice is based on the handling preferences of the clinician.
- **Is a resin bonding agent required between everX Flow and the overlying composite layer?**  
No, the adhesion between everX Flow and any conventional composite is very good and no bonding agent is required.
- **Can I use everX Flow in both small and large cavities?**  
Yes, due to its flowable and thixotropic viscosity, everX Flow can easily be used in all types of cavities, including shallow ones, particularly when managing existing crack formation.
- **Can I use everX Flow in deep carious lesions where softened dentine is left at the base of the cavity to avoid pulp exposure?**  
It is highly recommended that, in this situation, a glass ionomer cement is used to line the cavity prior to the utilisation of everX Flow as a reinforcing material.
- **What is the depth of cure and recommended duration of cure?**  
**Irradiation time:**  
10 sec. (High Power LED) (>1200 mW/cm<sup>2</sup>)  
20 sec. (Halogen/LED) (>700 mW/cm<sup>2</sup>)  
**Depth of cure:**  
Bulk shade - 5.5mm, Dentin shade - 2.0mm
- **What is the shelf-life of everX Flow?**  
The shelf-life of everX Flow is 3 years.



everX Flow™	
012898	everX Flow, Syringe 2 ml (3.7g) Bulk Shade
012899	everX Flow, Syringe 2 ml (3.7g) Dentin Shade

- **BULK SHADE**  
for Deep Cavities
- **DENTIN SHADE**  
for Highly Aesthetics Results

## Also Discover



**G-Premio BOND**  
Universal bonding agent



**G-aenial Universal Injectable**  
High-strength injectable restorative