For Dental Laboratory

everStick®
and Stick®
from GC
fiber reinforcements
for dental laboratory

• Extra strong • Multiple purposes • Easy to use
• Reliable • Aesthetic • Cost effective
• Scientifically proven • Minimally invasive
everStick® and Stick® glass fiber reinforcements
- premium products for premium laboratory work

everStick and Stick fiber reinforced composites (FRC) provide a strong, aesthetic and profitable solution for strengthening composites and acrylics. They are made of silanated E-glass fibers embedded in a polymer matrix.

You can choose between everStick and Stick fibers:
- everStick fibers are prewetted and ready to use. They are impregnated with thermoplastic polymer and light curing resin matrix.
- Stick fibers are dry and they should be wetted with a light-curing resin or a heat/cold curing acrylic depending on the indication. Stick fibers have a porous thermoplastic polymer matrix (PMMA).

**everStick®C&B**
especially recommended for bridges
- Surface retained bridges
- Inlay and onlay bridges
- Hybrid bridges
- Implant supported bridges
- Temporary bridges

And also for
- Removable dentures

**Stick®**
especially recommended for dentures
- New partial and full removable dentures
- Denture repairs

And also for
- Surface retained bridges
- Inlay and onlay bridges
- Implant supported bridges
- Hybrid bridges
- Temporary bridges

**Stick®NET & everStick®NET**
especially recommended for reinforcing crowns and thin areas of removable dentures
- Crowns
- Post and core crowns
- Veneers
- Thin areas in removable dentures
- Clasp areas in removable dentures

By courtesy of Shinya Akikatzu, Pasi Alande, Max Grimbaum, Georg Grumming, Stefan Ahlbom.
Excellent long term clinical data proves the product benefits

![Graph showing clinical performance of Stick dentures]

- Solution for a wide range of indications
- Compatible with most composites and acrylics
- Unique patented bonding
- Low starting investments
- Simple and time-saving fabrication method
- Stronger than other fibers
- As strong as metal
- Metal free and aesthetic
- Easy to repair
- Extensive research data

Easy way to replace missing teeth

Aesthetic. Because of the transparency of the fibers the FRC bridges are as aesthetic as full ceramic bridges.

Reliable. For more strength, simply add more fibers. Several scientific researches prove that FRC bridges are as strong as porcelain fused to metal restorations - or even stronger. The strength is based on superior bonding between the fibers and laboratory composites/composite luting cements.

Profitable. Initial investments with everStick and Stick fibers are minimal for the laboratory. All you need is the fiber, the composite and a light-curing unit. everStick and Stick fibers are compatible with most known laboratory composite systems.

Strong Stick® dentures

Stick fibers are superior materials to reinforce and repair all types of removable acrylic dentures and orthodontic appliances.

Denture base acrylics reinforced with Stick fibers are proven to be stronger - even more than 100 times stronger than plain denture base acrylic.

Debondings between the reinforcements and denture base acrylics are typical with polyethylene fibers and metal reinforcements. The PMMA matrix, inside the stick fibers, ensures an excellent bond with denture based acrylics. The risk of debonding is thereby eliminated.

IPN makes the difference! Superior bonding with patented IPN* matrix

The key factor for successful FRC (Fiber Reinforced Composite) restorations or dentures is proper bonding between the fibers and the composite/ acrylic.

Only everStick and Stick fiber products have the unique and patented Interpenetrating Polymer Network or IPN structure, which can be reactivated with resin. This reactivation dissolves linear polymers and forms new chemical bonds. The resin can also penetrate deeper into the fiber matrix which improves the micromechanical retention. Reactivation is crucial for superior bonding when cementing the laboratory manufactured everStick or Stick restorations to the teeth and when repairing or remodelling fiber reinforced composite restorations.

Beside the IPN structure, both fibers have also a patented matrix chemistry:
• everStick fibers consist of a cross-linked and a linear polymer mixture
• Stick fibers consist of a porous linear polymer matrix

As a result of all of this, the adhesion between fibers and composites, composite cements or acrylics is superior and offers reliable indirect bridge applications.

This makes Stick and everStick products fundamentally different from any other fibers or composite materials available on the market.

*IPN = Interpenetrating Polymer Network