

BeutiBond **X**treme



THE TRUE UNIVERSAL ADHESIVE



Etch, prime and bond in one step!

The trend in the development of adhesive systems is to improve adhesion while simplifying clinical manipulation steps. Along with that, the use of universal adhesives has been increasing and its performance has been reported to be clinically sufficient. [1]

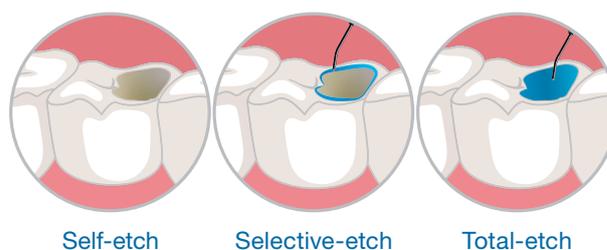
With BeautiBond Xtreme, SHOFU continues to evolve the latest generation of a true universal adhesive. By introducing a new type of Acid Resistant Silane coupling agent (ARS), a chemical composition with excellent stability has been designed to allow the surface treatment of a wide range of adherends with an easy-to-use system.

BeautiBond Xtreme is a light-curing, self-etching all-in-one universal adhesive for bonding direct and indirect restorations. It has "inherited" the excellent properties of the former BeautiBond Universal bonding system, such as bond strength, low technique sensitivity, convenient application and simplified one-step application procedure.



The multi-talent where safe and reliable bonding is required

Thanks to the new silane bonding agent ARS, BeautiBond Xtreme bonds to enamel, dentine and various indirect restorative materials (composite, precious and non-precious alloys, glass-ceramics, alumina and zirconia). An additional primer is not required.



BeautiBond Xtreme offers the flexibility to bond restorations in a way that suits your daily workflow.

Indications

- Direct restorations with light-cured composite resin
- Repair of fractured restorations with light-cured composite resin
- Post cementation and core build-up
- Cementation of indirect restorations with light-cured/dual-cured resin cement
- Sealing of tooth preparation (cavity or abutment) for indirect restorations

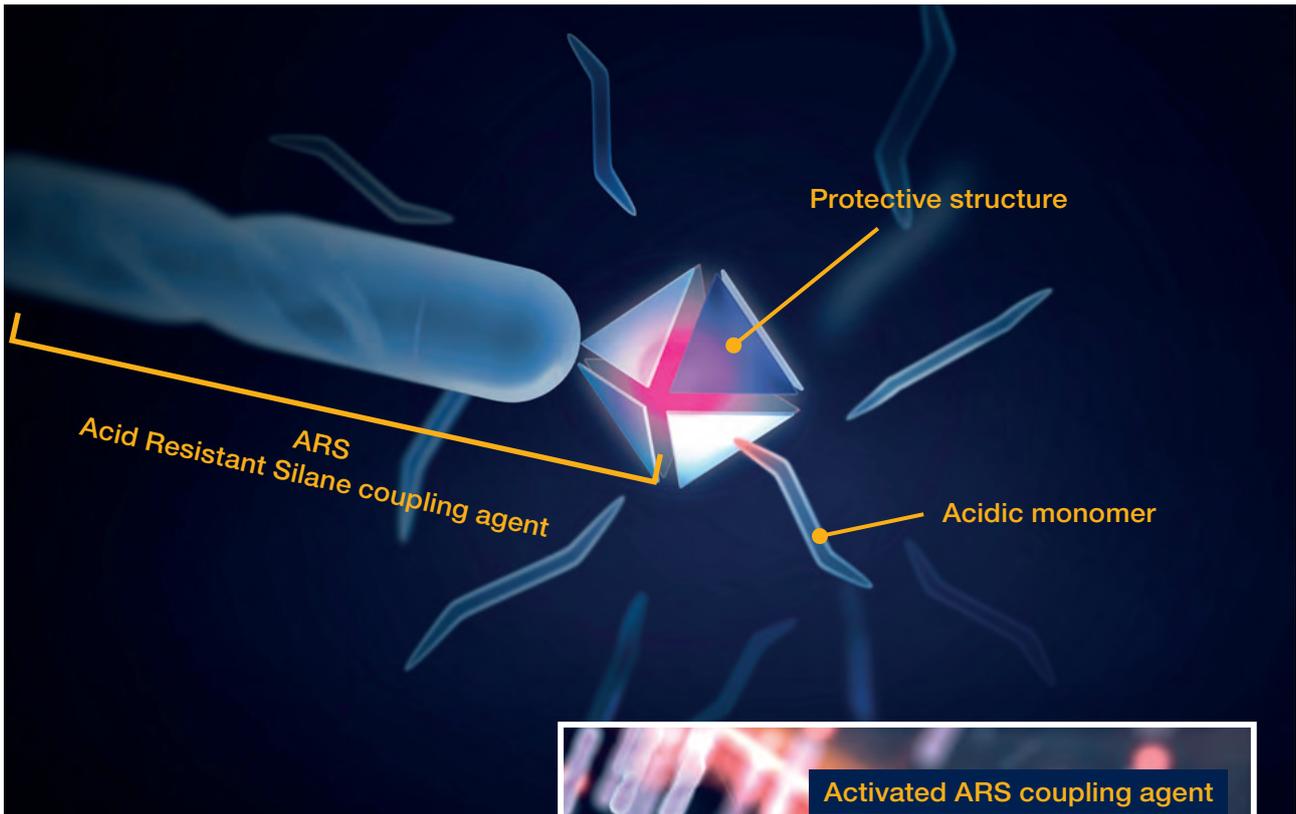
The power of ONE

- For a wide range of applications and adherends with one bottle
- Bonds equally well to wet and dry dentine
- No filler and no HEMA – protection against hydrolysis
- Compatible with self-etch, total-etch and selective-etch techniques
- Simplified procedure for any adherend surface
- No additional primer needed
- Can be stored at temperature of 1-25 °C



Improved properties thanks to quadra-functional monomer technology

The excellent bond strengths to natural tooth structure and various dental materials provided by BeautiBond Xtreme are supported by its four functional monomers including ARS ("Acid Resistant Silane") coupling agent and phosphate ester monomer and others. Thanks to no filler and no HEMA formulation, BeautiBond Xtreme has good hydrolysis stability.

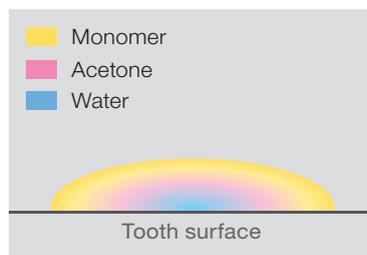


Conventional silane coupling agent contained in one-bottle adhesive system undergoes hydrolysis by the acidic monomers in the bottle during storage, and thus reduces adhesion to glass ceramics and composite resin.

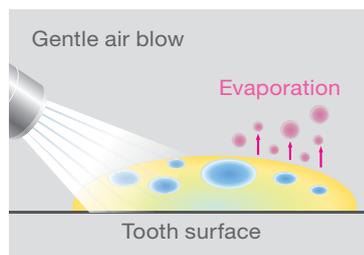
The unique ARS coupling agent has a protective structure against attacks from acidic monomers, therefore, long-term storage stability can be expected by suppressing hydrolysis. The protective structure is removed when the concentration of acidic monomers increases by air drying after application. This activates ARS, exerting the silane coupling effect. The freshly activated ARS coupling agent warrants an optimal bond with ceramic restorations preventing degradation even with prolonged storage.

Strong bond with less technical sensitivity

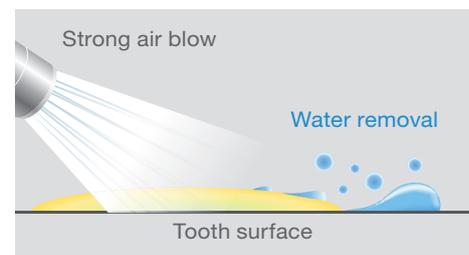
No filler and no HEMA formulation suppress viscosity of the adhesive and help to easily separate and remove water solvent by air drying, providing a thin uniform hydrophobic adhesive layer with excellent marginal aesthetics clinically. This eliminates risk of allergies and bond hydrolysis, assuring a reliable, strong bond with less technical sensitivity and minimised chair time.



Uniform adhesive layer during application (mixture of monomer, water and acetone)



Non-uniform adhesive layer consisting of water and hydrophobic monomer after gentle evaporation of the solvent



Uniform, water-free adhesive layer after brief drying with strong air

Easy handling

The optimised consistency of BeautiBond Xtreme makes work easier in several ways: The adhesive adapts very well and can be applied both economically and precisely – this is particularly important when performing minimally invasive dentistry.

User-friendly ergonomic new bottle design

The special nozzle design with smooth surfaces and edges delivers very small drops (approx. 260 drops with a 5 ml BeautiBond Xtreme bottle) and ensures controlled dispensing with minimal wastage. Open, dispense and close the bottle with just one hand!

BeautiBond Xtreme is not technique sensitive as the homogeneous formulation exhibits ideal viscosity for easy application and drying, without leaving any residual solvent.

Convenient storage at room temperature

BeautiBond Xtreme is stable and allows easy storage at temperatures between 1-25 °C.

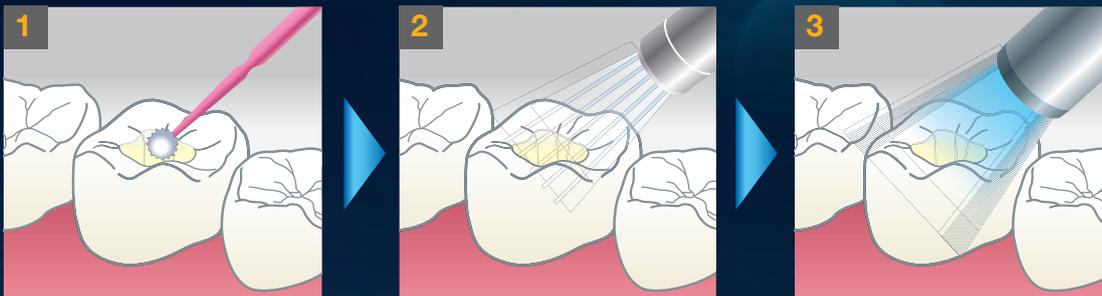
There is no need for refrigerated storage, therefore no need to wait until the adhesive reaches room temperature before use, which eliminates the complexity of storage control.





3 simple steps to durable adhesion

The elimination of inconvenient work steps, such as shaking or mixing and repeated application, and the absence of technically sensitive procedures guarantee bonding to both fast and simple. You will obtain a reliable and reproducible result. Start with the build-up of your filling in less than 30 seconds with no waiting time!



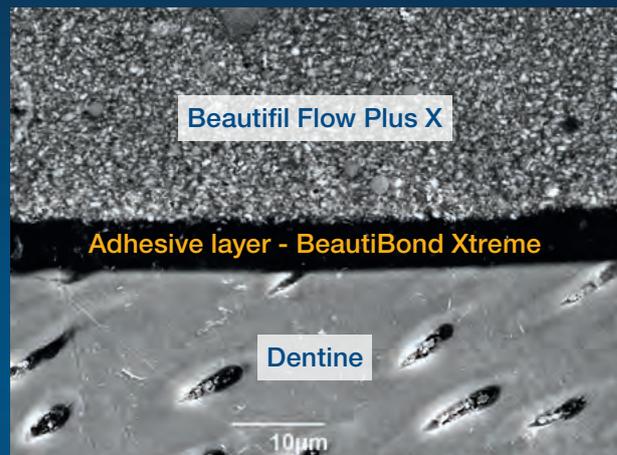
- 1 Apply adhesive (either directly or rub the adhesive for 20 sec if the tooth surface is etched with phosphoric acid). No waiting time.
- 2 Dry with gentle air for 3 sec., then with stronger air.
- 3 Light-cure (LED: 5 sec, Halogen: 10 sec).

If the adhesive surface does not have a glossy uniform appearance after air drying, repeat step 1 and 2.

Minimum film thickness for maximum aesthetics

As an unfilled adhesive, BeautiBond Xtreme ensures predictable adhesion with a thin, uniform bonding layer of approx. 5 μm , which is particularly advantageous when performing minimally invasive dentistry.

Even in cavities that are small, shallow and/or close to the gingiva, the adhesive film leaves enough space for highly aesthetic restorations, reliably bonded and indiscernible in the visible zone.



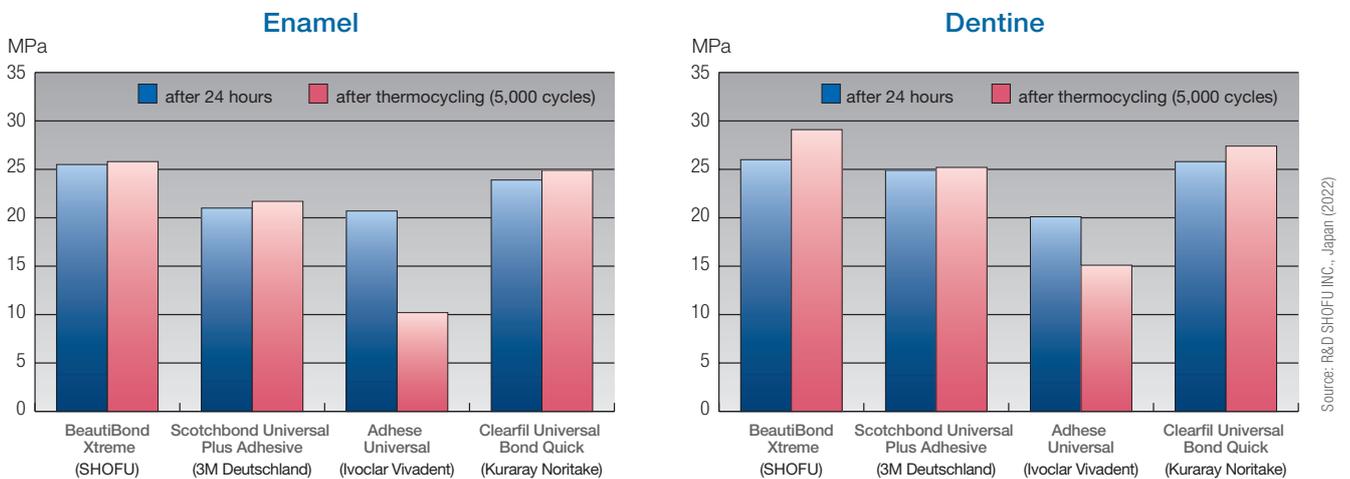
SEM image of tooth restoration interphase

High bonding strength to enamel and dentine

In internal comparative shear bond test using the notched-edge method according to ISO 29022:2013, BeautiBond Xtreme has been shown to provide higher bond strengths to enamel and dentine than competitor universal adhesives, both initially and following artificial aging with thermocycling process.

Offering the advantage of quick and reliable etching, priming and bonding in one step, BeautiBond Xtreme is an effective and durable alternative to multibottle adhesive systems.

Shear bond strength to enamel and dentine (self-etch technique)



Excellent restoration with composite resin



Metal inlay



Application of BeautiBond Xtreme (self-etch technique)



Final restoration with BEAUTIFIL Flow Plus X

Case courtesy of Prof Keiichi Hosaka, Tokushima University, Graduate School of Biomedical Sciences, Japan

Order information



BeutiBond Xtreme Set

- BeutiBond Xtreme, bottle, 5 ml
- Disposable Brush Fine (50 pcs.)
- SHOFU V-Dish (25 pcs.)

REF YE2448



BeutiBond Xtreme
Bottle, 5 ml
REF YE2449

Related products



BEAUTIFIL Flow Plus X*
Injectable hybrid composite in two viscosities (F00 / F03) for build-up and filling – suitable for all indications

BEAUTIFIL II LS*
Low-shrinkage pasty universal composite

BEAUTIFIL II*
Fluoride releasing aesthetic restorative material



BEAUTIFIL-Bulk*
One bulk-fill composite system with two viscosities (flowable / restorative) for increments up to 4 mm in thickness

ResiCem paste "Clear"
Radiopaque, universal dual-cure resin cement, suitable for all types of indirect restorative materials

BeautiCem Veneer
Light-cured resin cement for the luting of veneers and translucent inlays/onlays

* also available as tips

