stae

DENTIN / ENAMEL SINGLE COMPONENT TOTAL ETCH ADHESIVE

EINKOMPONENTEN TOTAL ETCH ADHÄSIV-SYSTEM FÜR DENTIN / SCHMELZ
ADESIVO SIMPLIFICADO PARA ESMALTE/DENTINA TOTAL ETCH
ADHESIVO GRABADOR TOTAL DE UN SOLO COMPONENTE PARA LA DENTINA Y EL ESMALTE
ADHÉSIF MONOCOMPOSANT À MORDANÇAGE DENTINE/EMAIL
ADESIVO SMALTO/DENTINA MONOCOMPONENTE TOTAL ETCH
DENTINE / GLAZUUR SINGLE COMPONENT TOTAAL ETS ADHESIEF
EN-KOMPONENT TOTAL ÆTS-ADHESIV FOR DENTIN OG EMAILJE
EN-KOMPONENT ETCH/ADHESIVE FOR DENTIN OG EMAILJE
YKSIKOMPONENTTINEN DENTIINI/KIILLE -TOTAL ETCH SIDOSAINE
ΕΝΟΣ ΣΥΣΤΑΤΙΚΟΥ, ΣΥΓΚΟΛΛΗΤΙΚΟΣ ΠΑΡΑΓΟΝΤΑΣ ΟΔΟΝΤΙΝΗΣ / ΑΔΑΜΑΝΤΙΝΗΣ ΠΟΥ ΣΥΝΔΥΑΖΕΤΑΙ ΜΕ ΩΛΙΚΗ ΑΔΡΟΠΟΙΗΣΗ
JEDNOSKŁADNIKOWY SYSTEM WIĄZĄCY ZE SZKLIWEM I ZĘBIĄ
DENTIN / ZOMÁNC EGY KOMPONENTSÚ BONDANYAG
DENTIINI / EMAILI ÜHEKOMPONENTNE TOTAL ETCH ADHESIVE
ENOKOMPONENTNI ADHEZIV ZA SKELNNIO IN DENTIN Z JEDKANJEM V ISTI FAZI
DENTÍNA / EMAILJAS VIENA KOMPONENTA SAAITE
JEDNOSLOŽkový, ADHESIVNÍ SYSTÉM PRO METODU ÚPLNÉHO LEPTÁNÍ PRO DENTIN A SKLOVINU
DENTIN / ENAMEL JEDNOZLOŽKOVÉ TOTAL LEPTACIE ADHEZÍVUM

歯科用象牙質接着材 - デンチン・エナメル用一液性トータルエッティングタイプ
牙本质/牙釉质单剂式彻底蚀型粘接剂
Stae is a fluoride releasing single component dentin/enamel total etch adhesive system, designed for direct bonding.

Stae completely and homogeneously infiltrates the hybrid layer to ensure superior bonding to the tooth.

**One bottle system**

Stae combines both primer and adhesive in one bottle to simplify the technique and decrease patient chair time.

**Fluoride release**

Fluoride’s cariostatic effect enhances remineralization and inhibits enamel demineralization. In an aqueous environment, the fluoride ions in Stae diffuse from the resin into the surrounding tooth.

This ionic movement is caused by oral fluid passing in and out of the resin and tooth, acting as a carrier for the fluoride ions.

**Non Bis-phenol A**

Stae avoids the Bis-phenol A hormonal imbalance controversy, as it does not contain the related BisGMA resin.

**Dental Advisor rating**

“Stae is a highly recommended adhesive system designed for composite, compomer, and porcelain bonding. It received an 86% rating.” (1)

**Bonds to moist and dry tooth surfaces**

Stae’s carrier solvent is a mixture of acetone and water. The acetone carries Stae deep into the demineralized dentin and the water re-moistens any dry dentin.

**High bond strength**

Stae’s complete hybridization of the resin into the demineralized dentin results in high bond strength.

**Indications**

- All direct restorative composites
- Compomers
- Composite / Ceramic* / Metal* / Porcelain* Repairs

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*Bonding surface requires pre-treatment with a silane primer.

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**Graph**: Cumulative fluoride release vs. bond strength (MPa)

- Stae
- Adper Single Bond*
- Optibond Solo*
- One Step*
- Bond-1*

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* ppm/cm²
**Complete and consistent hybridization**

“SEM observations of the Stae adhesive system revealed hybridization at the dentin-resin interface. The hybrid layer appears well developed with a uniform thickness of around 3 to 4 microns.”(2) Stae’s well infiltrated hybrid layer, compared to the other brands below, illustrates Stae’s complete sealing of the dentinal tubules, minimizing post-operative sensitivity. Evident in the photographs is Stae’s “intimate adaptation of the interdiffused resin to the remaining sound tooth structure and uniform image density.

There are no gaps or voids visible within the hybrid layer. Such a characterization has previously been associated with adhesive systems with durable clinical success. A similar result was found with 3M Single Bond* adhesive system. With the Optibond Solo* adhesive, a less well defined hybrid layer resulted. Within the layer are areas void of resin interdiffusion. Further, the non-uniform image density suggests a lack of complete hybrid layer development.”(3)

**No voids**

Stae’s “hybrid layer is continuous with the residual dentin layer with no evidence of separation or voids.”(2)

**Complete seal**

Stae’s “hybrid layer is very uniform with no variation in staining which represents a uniform interdiffusion of adhesive resin into the demineralized layer. The collagen framework appears totally encapsulated with resin.”(2)

**Intact collagen**

“Collagen fibrils within the hybrid layer show evidence of complete banding with no signs of denaturing or loss of structural integrity.”(2)
Stae Bottle kit
1 x 5mL Stae bottle
2 x 2mL Super Etch syringes
25 Super Etch disposable tips
accessories
Reorder 8100202

Stae Bottle refill
1 x 5mL Stae bottle
Reorder 8100201

Stae Single Dose kit
50 x 0.1mL Stae Single Dose
50 x Points disposable brush
applicators
1 x Single Dose holder
Reorder 8100205

* Not the registered trademarks of SDI Limited.
** Source-Published and SDI test data.
(2) Duke E.S., DDS, MSD, (1997). Ultrastructural and physical property studies of Stae single component adhesive system. The University of Texas Health Science Center, San Antonio, USA.

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