

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/ÉMAIL

ADESIVO SMALTO/DENTINA MONOCOMPONENTE TOTAL ETCH

DENTINE / GLAZUUR SINGLE COMPONENT TOTAAL ETS ADHESIEF

EN-KOMPONENT TOTAL ÆTS-ADHESIV FOR DENTIN OG EMALJE

EN-KOMPONENT ETCH/ADHESIVE FOR DENTIN OG EMALJE

YKSIKOMPONENTTINEN DENTIINI/KIILLE -TOTAL ETCH SIDOSAINE

ΕΝΟΣ ΣΥΣΤΑΤΙΚΟΥ, ΣΥΓΚΟΛΛΗΤΙΚΟΣ ΠΑΡΑΓΟΝΤΑΣ ΟΔΟΝΤΙΝΗΣ /
ΑΔΑΜΑΝΤΙΝΗΣ ΠΟΥ ΣΥΝΔΥΑΖΕΤΑΙ ΜΕ ΟΛΙΚΗ ΑΔΡΟΠΟΙΗΣΗ

JEDNOSKŁADNIKOWY SYSTEM WIAŻĄCY ZE SZKLIWEM I ZĘBINĄ

DENTIN / ZOMÁNC EGY KOMPONENSÜ BONDANYAG

DENTIINI / EMAILI ÜHEKOMPONENTNE TOTAL ETCH ADHESIVE

ENOKOMPONENTNI ADHEZIV ZA SKELNINO IN DENTIN Z JEDKANJEM V ISTI FAZI

DENTĪNA / EMALJAS VIENA KOMPONENTA SAITE

JEDNOSŁOŹKOVÝ, 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チングタイプ

牙本质/牙釉质单剂式彻底酸蚀型粘接剂



SDI

single component total etch adhesive

stae

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.



The Dental Advisor.
September 1998,
Vol. 15, No. 7.

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

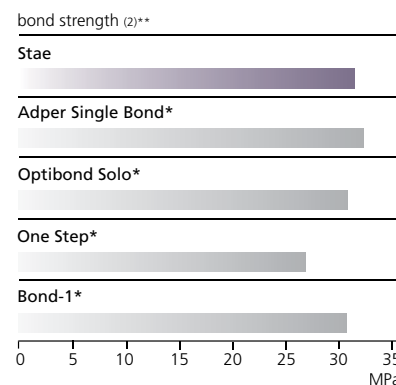
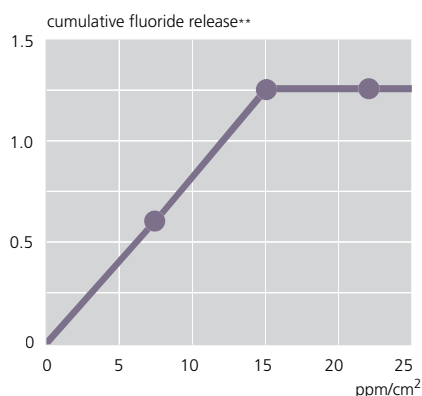
Stae's complete hybridization of the resin into the demineralized dentin results in high bond strength.



Indications

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

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



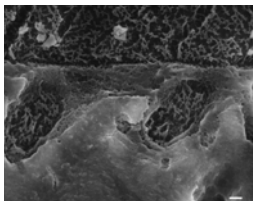


Complete and consistent hybridization

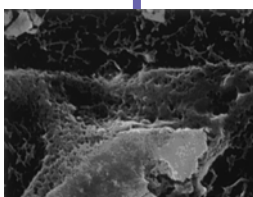
"SEM observations of the Stae adhesive system revealed hybridization at the dentin-resin interface. The hybrid layer appears well developed with a uniform thickness of around 3 to 4 microns."⁽²⁾ Stae's well infiltrated hybrid layer, compared to the other brands below, illustrates Stae's complete sealing 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⁾

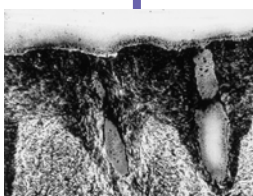
Stae



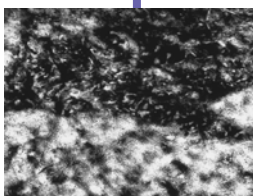
Magn 5,000x



SEM Magn 2,000x

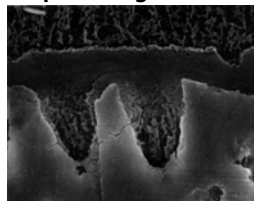


TEM Magn 2,000x



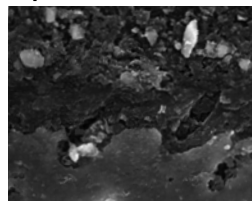
SEM Magn 10,000x

Adper Single Bond*



Magn 5,000x

Optibond Solo*



Magn 5,000x

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⁾

instructions:

Clean and isolate tooth

- 1 Etch tooth surface with Super Etch 37% phosphoric acid for 20 seconds

- 2 Wash thoroughly

- 3 Remove excess water. Keep moist

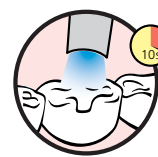
- 4 Apply Stae to saturate all internal surfaces



- 5 Blow gently with dry, oil free air for 2 seconds to evaporate solvent. Leave surface glossy



- 6 Light cure for 10 seconds



- 7 Apply composite or compomer, such as Ice, Rok or Wave, according to the manufacturer's instructions

stae



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.

- (1) The Dental Advisor. September 1998, Vol 15, No 7.
(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.
(3) Duke E.S., DDS, MSD, (1997). Research Report, The University of Texas Health Science Center at San Antonio.



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