

alloybond

HIGH STRENGTH FLUORIDE RELEASING AMALGAM BOND

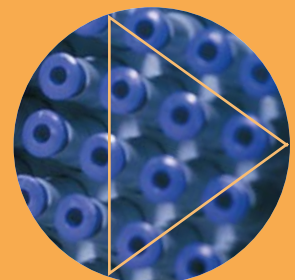
FLUORIDE FREISETZENDES AMALGAM-BOND

ADESIVO PARA AMÁLGAMA DE ALTA RESISTÊNCIA COM FLÚOR

ADHESIVO PARA AMALGAMA DE ALTA RESISTENCIA CON LIBERACION DE FLUOR

COLLAGE DEGAGEANT DU FLUOR, POUR AMALGAME

ADESIVO PER AMALGAMA CON RILASCIO DI FLUORO DALL'ELEVATO POTERE



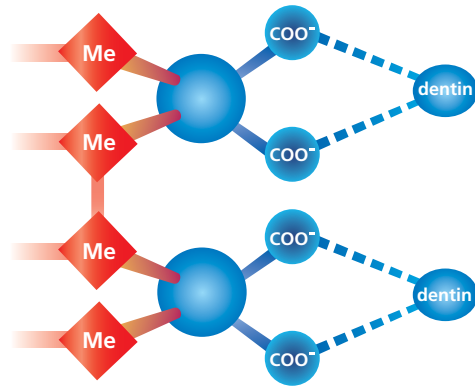
SDI

Alloybond

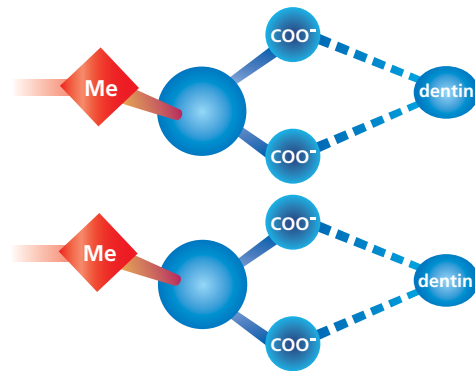
Alloybond is a high strength, fluoride releasing, amalgam bond

Alloybond's unique dimethacrylate resin groups provide twice the cross linking and superior strength

Alloybond does not contain BisGMA nor Bis-Phenol A



Alloybond resin matrix



4-meta resin matrix

Twice the cross linking

SDI's unique dimethacrylate resin, with carboxylic groups, provide twice the cross linking compared to the 4-meta system. The SDI resin system contains two cross links per chain when polymerized, whilst the 4-meta monomethacrylate system cross links only once. Additional cross links create a stronger resin matrix, superior chemical bonding and higher cohesive strength.

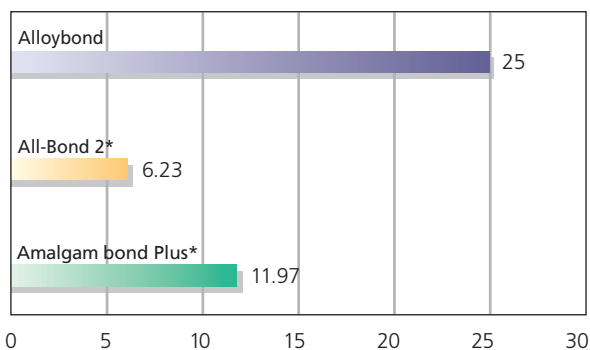
Denser resin matrix

The Alloybond monomers are more closely arranged for a stronger resin matrix.

Stronger resin matrix

SDI's Alloybond offers stronger dentin bond strength, without the complication of adding filler required by other amalgam bonds.

Amalgam to dentin bond strength (MPa)**

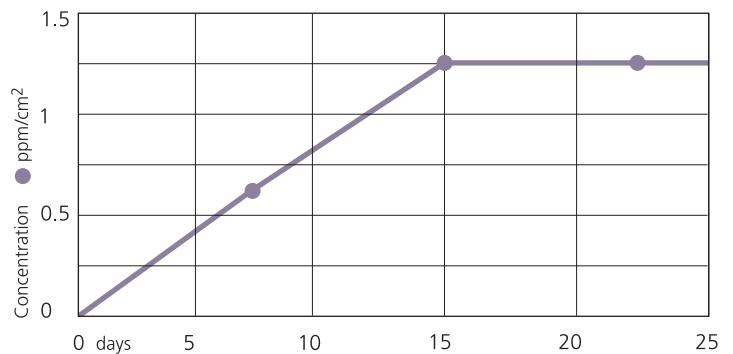


Alloybond is twice as strong. Permite amalgam used.

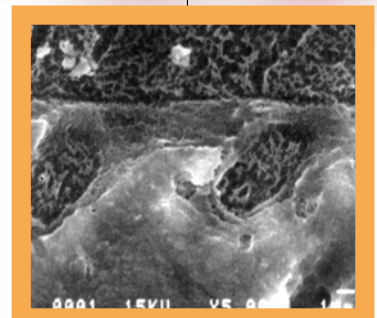
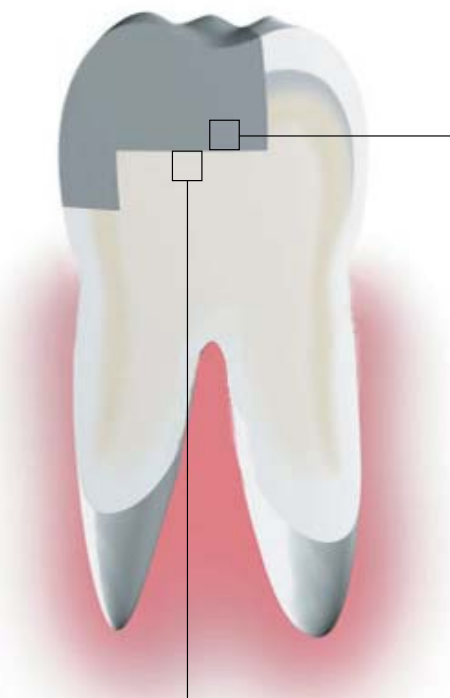
*Are not the registered trademarks of SDI Limited.

**Source-Published and SDI test data.

Cumulative fluoride release**



Alloybond releases fluoride. All-Bond 2* and Amalgambond Plus* do not.



Magn 5000x 1 micron scale

1 The Alloybond acetone based primer penetrates deeply into the dentin tubules and surrounding hybrid zone forming a retentive Hybrid-Lock.

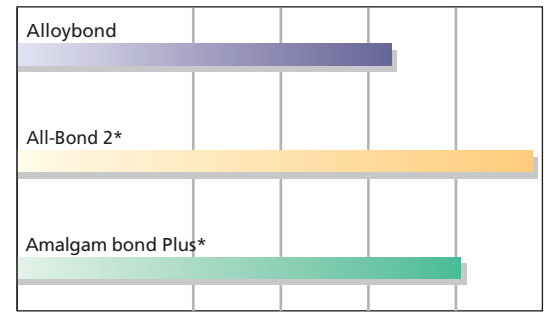
Complete sealing eliminates microleakage and postoperative sensitivity.

Alloybond provides effective pulpal protection.

Photo 1
Duke E.S., DDS, MSD, (1997). Ultrastructural and Physical Property Studies of STAE Single Component Adhesive System, Biomedical Consulting, San Antonio, USA.

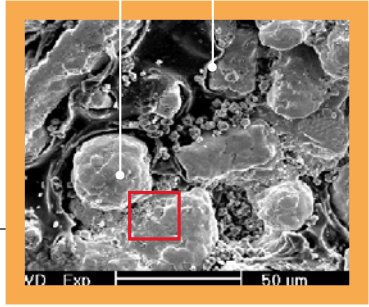
Photos 2, 3, 4
Ngo H., DDS, MDS, (1998). Adelaide University, Australia.

Application time comparison**



Alloybond is quick and uncomplicated.

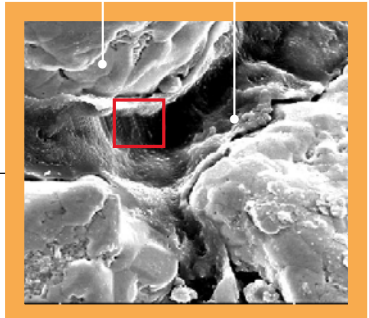
Permite Alloybond



Magn 903x 50 micron scale

2 The Alloybond resin tags form at the peripheral of the amalgam restoration; without interfering with the amalgam setting reaction. (Permite amalgam used)

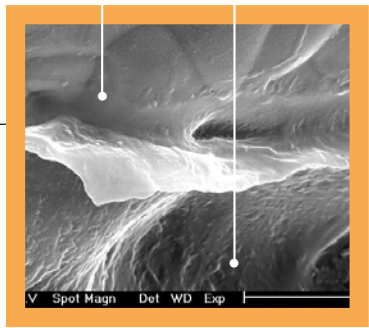
Permite Alloybond



Magn 3694x 20 micron scale

3 Alloybond's adhesive component forms resin tags that mechanically lock into the amalgam restoration.

Permite Alloybond



Magn 29552x 2 micron scale

4 Alloybond creates a complete merge between the amalgam and resin.

Indications

- Amalgam Bonding
- Composite Bonding
- Bonding to sand blasted, etched, silane treated porcelain
- Bonding to sand blasted, silane treated gold
- Cementing crowns, bridges, inlays, onlays

INSTRUCTIONS

Isolate tooth, prepare cavity

- 1 Etch tooth surface with 37% phosphoric acid for 20 seconds
- 2 Wash thoroughly
- 3 Remove excess water. Keep moist
- 4 Apply Alloybond Primer 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 Mix one drop of Alloybond Base and one drop of Alloybond Catalyst



- 8 Apply mixture to all internal surfaces



- 9 Start trituration of amalgam

- 10 Condense and carve amalgam within 60 seconds of applying Alloybond Base and Catalyst mixture, or place composite 60 seconds after applying Alloybond Base and Catalyst mixture



alloybond



Alloybond Kit

Reorder 5544001
1 x 5ml Alloybond Primer
1 x 5ml Alloybond Base
1 x 5ml Alloybond Catalyst
1 x 2ml syringe of Super Etch
Brushes, handles, mixing pad
25 Super Etch disposable tips

Alloybond Primer

Reorder 5544011
1 x 5ml Alloybond Primer

Alloybond Base

Reorder 5544010
1 x 5ml Alloybond Base

Alloybond Catalyst

Reorder 5544012
1 x 5ml Alloybond Catalyst



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