

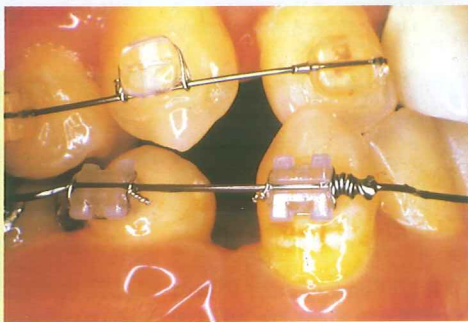
Super-Bond Porcelain Liner M

Primer for Porcelain Bonding

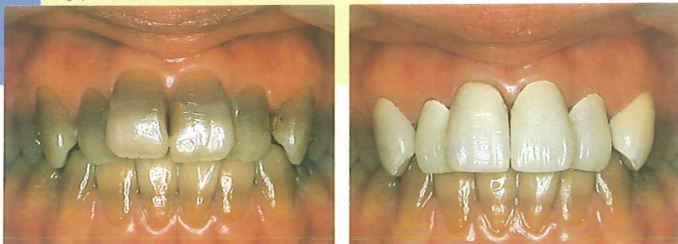


Content of the kit:	
● Liquid A	5ml
● Liquid B	5ml
● Plastic dispensing dish	15
● Sponge (L · S)	1

Bonding porcelain bracket to teeth

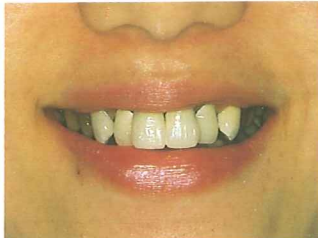


Bonding porcelain veneers



* Before treatment

* After treatment



A primer that promotes fast, reliable bonding to porcelain with Super-Bond C&B.

Porcelain Liner M is a silane coupling agent that chemically bonds to porcelain. It permits Super-Bond C&B to bond to porcelain surfaces that have not been acid-etched.

The combination of Porcelain Liner M's strong, durable bond to porcelain and Super-Bond's superb bond to teeth and metal permits broad application:

- bonding porcelain inlays, onlays or crowns
- bonding orthodontic brackets to porcelain surface
- bonding porcelain veneers
- repairing fractured porcelain facing, etc.

Porcelain Liner M plus Super-Bond C&B ... for strong, durable bonds to porcelain

For more than a decade, Super-Bond C&B has proven an extraordinary adhesive for metals and tooth structure. And now, once the surface has been pretreated with Porcelain Liner M, Super-Bond C&B will even bond to unetched porcelain... creating strong bonds (20 MPa) that can survive 10,000 thermocycles.

Advantages:

Easy use:

- eliminates acid-etching of porcelain surface
- takes just a few seconds to apply and dry
- can be used intraorally.

Superior bond to porcelain with Super-Bond C&B, as shown below:

Table 1 : Bond Strength between VITA Porcelain(ground with #600 Emery paper) and Stainless Steel

Thermal cycle (Times) (4 C-60 C)	Bond strength (MPa)		
	1,000	5,000	10,000
Porcelain Liner M, Super-Bond C&B	20	19	13
A bonding Agent for porcelain (Imported)	20	12	4
Super-Bond C&B without Porcelain Liner M	8	—	—

Note: Bonding of VITA(559)#600 to SUS304(Sandblasted)

Table 2 : Bond Strength between VITA Porcelain(glazed surface) and Stainless Steel

Thermal cycle (Times) (4 C-60 C)	Bond strength (MPa)		
	1,000	5,000	10,000
Porcelain Liner M, Super-Bond C&B	20	19	9
A Bonding Agent for Porcelain(Imported)	20	5	3

Note: Bonding of the glazed surface of VITA(559) to SUS304(Sandblasted)

Table 3 : Bond Strength between Ceramic Bracket and Acrylic Block

Thermal cycle (Times) (4 C-60 C)	Bond strength (MPa)		
	1,000	5,000	10,000
Porcelain Liner M, Super-Bond C&B	20	11	10

Note: Tensile bond strength after completion of thermal cycles

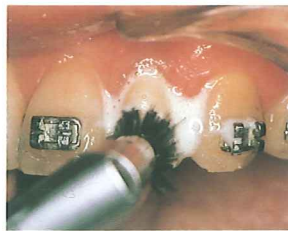
Table 4 : Effect of Heat Treatment Condition of Porcelain Liner M Coated Surface on Bond Strength

Heating condition	Treatment time (min.)	Bond strength (MPa)
Not heat treated	—	13
Heat treated with blower (120-130°C)	1	19
	2	20
Heat treated with hair dryer (70-80°C)	1	17
	3	21

Note: Bonding of VITA(559)#600 to SUS304(Sandblasted) after 10,000 thermal cycles

Examples of Clinical Applications:

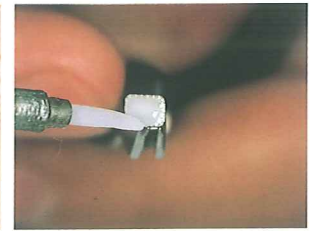
① Bonding brackets to porcelain teeth



(a) Polish the porcelain tooth surface using a brush cone with paste. Rinse and dry.



(b) Apply mixed Porcelain Liner M to the porcelain surface.



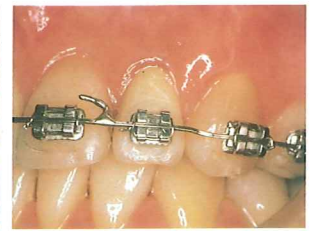
(c) Brush Super-Bond C&B on a bracket surface.



(d) Place and press the bracket to the tooth. Leave it to cure.



(e) Remove excess resin.



(f) Attach wire.

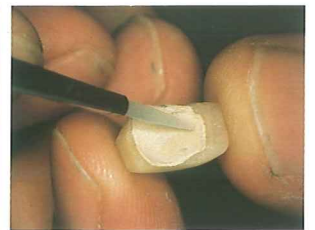
② Repairing dislodged porcelain facings



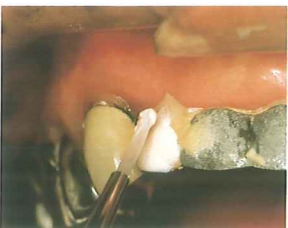
(a) Fracture of porcelain facings.



(b) The porcelain surface should be cleaned with a solvent such as acetone, or if necessary, a thin layer of opaqued porcelain may be removed.



(c) Apply mixed Porcelain Liner M to the surface and warm it with hot air. (See Table 4)



(d) Brush Super-Bond C&B on the surface, (after pre-treatment of the precious metal surface with V-PRIMER.)



(e) Place and press the facing to the teeth and remove the excess.



(f) Complete repair. (Any missing porcelain should be rebuilt with a composite resin.)

③ Repairing ceramometal crown



(a) Fractured incisal edge of porcelain facing.



(b) Apply mixed Porcelain Liner M, then Super-Bond C&B on the fracture surface. Rebuild the missing part with a composite resin.