Super-Bond Universal Kit

Super-Bond Catalyst V	0.7mL
Super-Bond Quick Monomer	10mL
Super-Bond Universal Polymer (Clear)	3g
Super-Bond Universal Polymer (Radiopaque)	5g
Teeth Primer	3mL
M&C PRIMER A	2mL
M&C PRIMER B	2mL
Dispensing Stand	1
Dispensing Cups	20
Measuring Spoon (Standard)	1
Brush Handle (Bent)	1
Brush Tips (Brush-dip L)	10
Brush Tips (Brush-dip LL)	10
Spatula (Grey)	1

Super-Bond Universal Starter Kit

Super-Bond Catalyst V	0.3mL
Super-Bond Quick Monomer	3.5mL
Super-Bond Universal Polymer (Clear)	3g
Teeth Primer	3mL
M&C PRIMER A	2mL
M&C PRIMER B	2mL
Dispensing Stand	1
Dispensing Cups	20
Measuring Spoon (Standard)	1
Brush Handle (Bent)	1
Brush Tips (Brush-dip LL)	10
Spatula (Grey)	1

Refills and Accessories (sold separately)

Catalyst V

Super-Bond Catalyst V
0.7mL

Monomer

Super-Bond Quick Monomer
10mL

Polymer

Super-Bond Universal Polymer
Clear 3g ／ Esthetic 3g ／ Radiopaque 5g

Primer

For Enamel, Dentin

Teeth Primer
3mL

For Precious Metal, Lithium Disilicate, Porcelain, Zirconia, Resin composite

M&C PRIMER
M&C PRIMER A 5mL ／ M&C PRIMER B 5mL

Brush Tips (Brush-dip S) 10pcs

Brush Tips (Brush-dip L) 10pcs

Brush Tips (Brush-dip LL) 10pcs

Brush Handle (Bent)

Brush Handle (Straight)

Dispensing Stand

Dispensing Cups 40pcs

Measuring Spoon (Small)

Measuring Spoon (Standard)

Measuring Spoon (Large)

Spatula (Grey)

Made in Japan by SUN MEDICAL CO.,LTD.
http://www.sunmedical.co.jp
571-2 Furutaka-cho, Moriyama, Shiga, 524-0044 JAPAN Phone : +81-77-582-9981 Fax : +81-77-582-9984

CE 0123 CE

Super-Bond

Dental Adhesive Resin Cement

Universal Kit
Universal Starter Kit

SUN MEDICAL

What is Super-Bond?

Super-Bond is a self-cured adhesive resin cement having high bond strength and biocompatibility.
They were first launched in 1982. Since then, it has a long clinical track record in many countries. And it has been introduced as "**4-META/MMA-TBB resin**" in many literatures.

Super-Bond
Since 1982

1982 Orthomite Super-Bond
Orthodontic adhesive

1983 Super-Bond C&B
Addition to a clinical indication of dental adhesive resin cement

2000 Super-Bond C&B
Improved operability of Bulk-mix technique with "Polymer L-type"

2009 Super-Bond C&B Brush-dip Kit
Super-Bond C&B Bulk-mix Kit
Improved operability of Bulk-mix and Brush-dip techniques, respectively

2019 Super-Bond Universal Kit
Applicable both techniques of Bulk-mix and Brush-dip with the product by the introduction of "Universal Polymer" , improved operability of pre-treatment with Teeth Primer and M&C PRIMER

Long lasting clinical cases

Adhesion bridge with Bulk-mix technique


Losing upper first premolar.

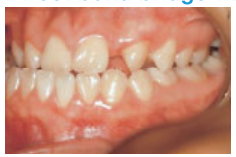

The abutment surfaces were etched with phosphoric acid gel.
The inner surface of the type IV gold alloy was sandblasted, treated with primer for precious metal and bonded by using Super-Bond C&B.


After setting, occlusal surface.

Clinical photos provided by Dr. M. Nakamura


18 years have passed.
The progress is good.

Direct bond bridge with Brush-dip technique


Edge-to-edge occlusion with congenitally missing maxillary lateral incisors and a posterior crossbite.


Resin denture teeth were selected that matched the color of the proximal teeth.

Clinical photos provided by Dr. F. Miura, emeritus professor, Tokyo Medical and Dental University


The abutment surfaces were etched with phosphoric acid.
The resin denture teeth were bonded by using Orthomite Super-Bond.


15 years and 3 months have passed.
The progress is good.

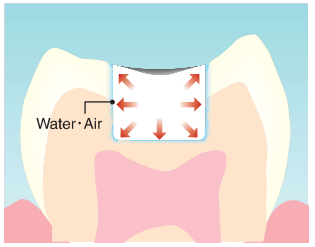
Why Super-Bond has been used?

Unique Adhesion

The polymerization system of "Super-Bond"

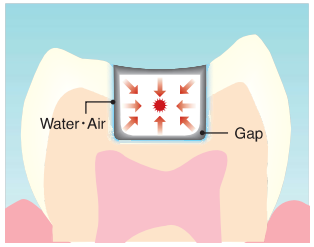
Catalyst V which has TBB as its main component shows a characteristics of polymerizing from the tooth surfaces which air and water exist.
Therefore, it shows an stable adhesion and durability even the oral cavity in a wet environment. Also we can expect a prevention from secondary caries.

Super-Bond
(TBB Chemical polymerization type)



It polymerizes from the cavity wall which air and water exist.

Common self-cure resin cements
(Non-TBB Chemical polymerization type)



Since the polymerization proceeds from the inside of resin which has no air or water, the gap easily occurs between the tooth and the resin.

Resistant to external stress

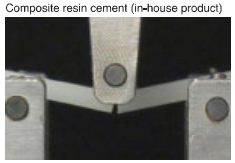
Moderate toughness and flexibility

The cured resin of Super-Bond has a moderate toughness and flexibility so that it will absorb external stress.

Three-point bending test (ISO4049)

Super-Bond

Composite resin cement (in-house product)



(Source: Sun Medical Co., Ltd.)

Super-Bond's flexibility reduces the risk of fracture.

Biocompatibility

Cell proliferation test [a)]

Fibroblast cells were cultured for 4 days in dishes with various adhesives. The cells cultured with 4-META/MMA-TBB resin remained alive during experimental periods. It seems that the 4-META/MMA-TBB resin caused almost no cytotoxic damage to the cell.

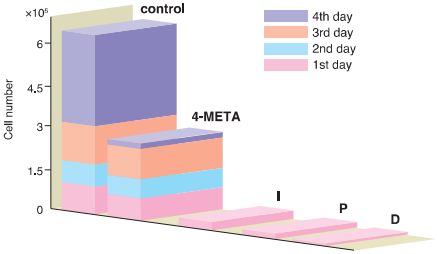


Fig. Results of cell proliferation test on the 4-META, I, P, D: other dental materials

a) Inoue T, Miyakoshi S, Shimono M: Dentin pulp/adhesive resin interface. Biological view from basic science to clinic. Proc Int Cnf Dent/Pulp '95, 217-220, 1995.

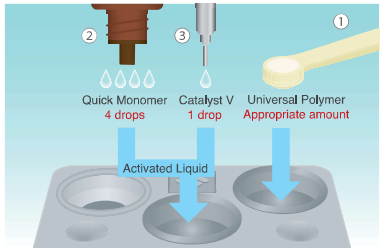
Multi-Purpose Use

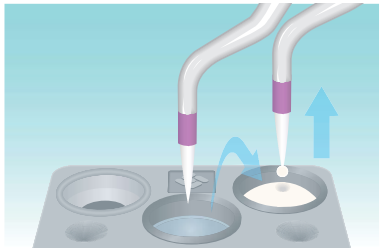
Super-Bond can be used for many clinical cases.

	Super-Bond	2 Paste Type
		
Cementation of prostheses (inlays, onlays, crowns, bridges, veneers and root posts)	✓	✓
Orthodontic application	✓	–
Repair of prostheses	✓	–
Direct fixation of mobile teeth	✓	–
Direct bonded bridge	✓	–

One product for many clinical cases (In case of Super- Bond Universal Kit)

Brush-dip technique : Bonding for the relatively narrow areas

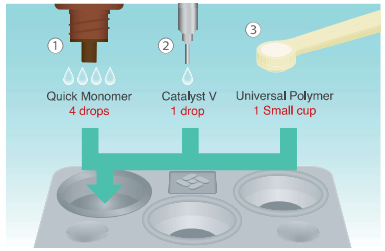


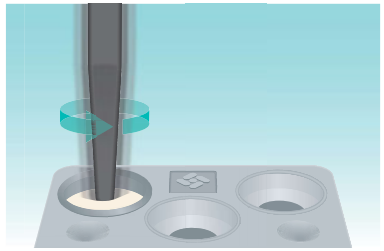


Quick Monomer	4 drops
Catalyst V	1 drop
Universal Polymer	Appropriate amount

Wet the Brush Tip with the Activated Liquid then pick up Polymer powder. Transfer and apply the Polymer ball on to the surface to be bonded.

Bulk-mix technique : Bonding for the relatively wide areas





Quick Monomer	4 drops
Catalyst V	1 drop
Universal Polymer	1 Small cup

After mixing, load the cement mixture to the prosthesis.

Recommended clinical indications


Direct fixation of mobile teeth


Direct bonded bridge


Orthodontic application


Repair of fractured prostheses

Recommended clinical indications


Crowns


Bridges

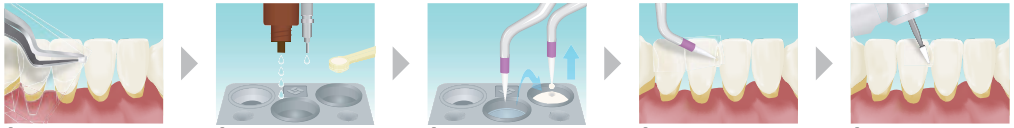

Root posts


Onlays/Inlays


Veneers

Basic procedure for Brush-dip technique

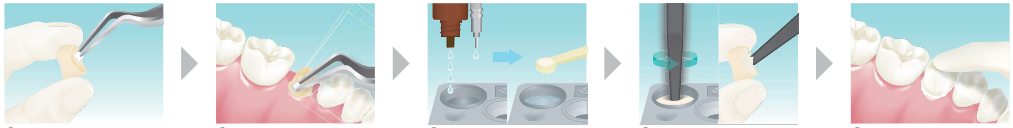
Direct fixation of mobile teeth



①Pre-treat teeth. ②Dispense each component to cups. ③Prepare a polymer ball. ④Apply the polymer ball. ⑤After cure, polish.

Basic procedure for Bulk-mix technique

Cementing of a crown



①Pre-treat a crown. ②Pre-treat a tooth. ③Dispense each component to a cup. ④Mix it and apply. ⑤Seat the crown and remove excess cement.

Appropriate pre-treatment agents will bring a durable bonding performance

Test: Shear Bond Strength (ref. ISO16506).

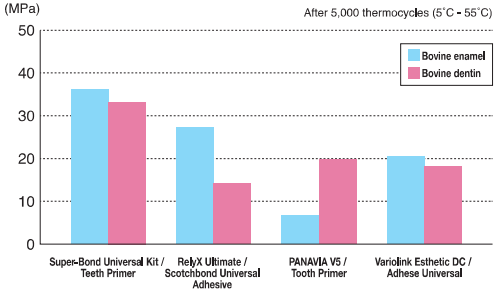
Super-Bond Universal Kit was self-cured. The other materials were light-cured according to the manufacturer's instruction.

Gold-alloy and Zirconia were sandblasted before pre-treatment.
Lithium Disilicate was etched by Hydrofluoric acid (HF) before pre-treatment.

Source: Sun Medical Co., Ltd.

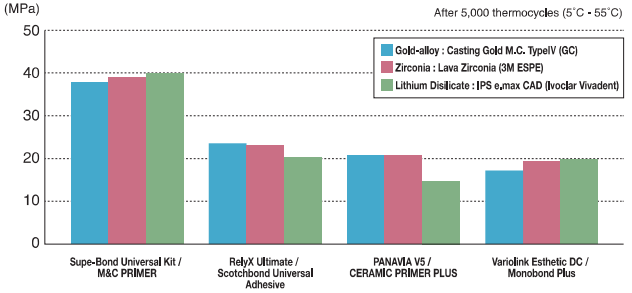
For Tooth Surface:
Teeth Primer

Shear Bond Strength



For Prostheses:
M&C PRIMER

Shear Bond Strength



Super-Bond Universal Kit

New

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Dispensing Cups	20
Measuring Spoon (Standard)	1
Brush Handle (Bent)	1
Brush Tips (Brush-dip L)	10
Brush Tips (Brush-dip LL)	10
Spatula (Grey)	1

Universal Polymer

Super-Bond Universal Polymer is easy to use for both Brush-dip and Bulk-mix techniques.

Pre-treatment for various prostheses

Teeth Primer: For both enamel and dentin, no need to rinse

M&C PRIMER: For various prostheses.
(Precious Metal, Lithium Disilicate, Porcelain, Zirconia, Resin composite etc.)

Easy to remove excess resin

Compared to the conventional Polymer, easy to remove excess resin.

Operation

Super-Bond Universal Polymer improves operability

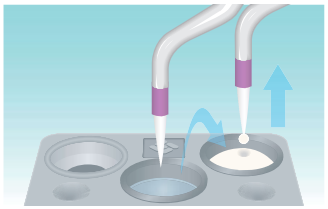
Universal Polymer can be used for both Brush-dip and Bulk-mix techniques, so it enables the operation easier.

New

Universal Polymer	Clear	Esthetic	Radiopaque
Brush-dip technique	✓	✓	
Bulk-mix technique	✓	✓	

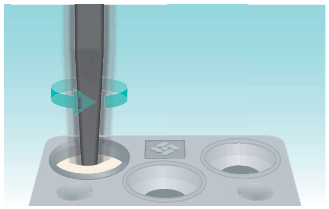
Brush-dip technique

・Making a polymer ball becomes easier.



Bulk-mix technique

・Possible mix it under a room temperature.
・Easy to remove excess resin.



Pre-treatment

Super-Bond Universal Kit simplifies pre-treatment for various prostheses.

Tooth

Enamel & Dentin

New

Teeth Primer

Enamel

Super-Bond C&B Red Activator　Enamel Etchant Gel

Dentin

Super-Bond C&B Green Activator　Dentin Etchant Gel

Prostheses

Precious Metal,
Lithium Disilicate,
Porcelain,
Zirconia,
Resin Composite,
etc.

New

M&C PRIMER

*Any pre-treatment is unnecessary for non-precious metal when using Super-Bond.