

ESTECEM II

ESTECEM II ist ein dualhärtendes (licht- und / oder selbsthärtend), röntgenopakes, adhäsives Kunststoffzement-System mit hervorragenden Eigenschaften hinsichtlich Handhabung, Ästhetik und Adhäsion, das sich für alle prosthetischen Materialien eignet.

NEU



Indikationen

- + Zementierung von indirekten Restaurationen (jegliches prosthetisches Material)
- + Reparatur frakturierter Kronen
- + Zementierung von Veneers
- + Zementierung von Adhäsionsbrücken
- + Zementierung von Metall- oder Kunststoffkernen bzw. - Metall- oder Glasfaserstiften

Eigenschaften

- + Universell einsetzbar
- + Zuverlässige Haftkraft an Zahnstruktur und Prothese
- + Hohe mechanische Stärke und gute Abnutzungsresistenz
- + Geringe Wasseraufnahme sowie Löslichkeit
- + Geringe Schichtstärke
- + Hervorragende Ästhetik sowie Farbstabilität
- + Gute Röntgenopazität
- + Leichtes Handling und Entfernen der Überschüsse

Klinische Anwendung



Verpackungseinheiten

Komplett-Kit (nur Universal):

- Paste Universal (9,4g)
- Flasche Universal Bond A (5ml)
- Flasche Universal Bond B (5ml)
- 15 x Mischkanülen
- 5 x Mischkanülen S
- 5 x Düse für Mischkanüle S
- 25 x Mikropinsel
- 1 x Anmischschale
- 5 x Einweg-Anmischschale

Refill:

- Paste Universal (9,4g)
- Paste Braun (9,4g)
- Paste Klar (9,4g)
- Paste Weiß-Opak (9,4g)
- Flasche Universal Bond A (5ml)
- Flasche Universal Bond B (5ml)
- 40 x Mischkanülen
- 40 x Mischkanülen S
- 40 x Düse für Mischkanülen S

Erhältlich in 4 verschiedenen Farben



Klar



Universal



Braun



Weiß-opak

ESTECEM II



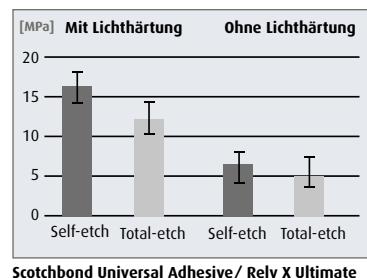
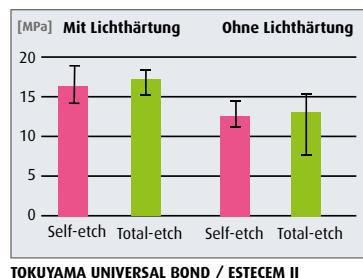
Universell einsetzbar

ESTECEM II ist ein Komposit-Zement für das gesamte Indikationsspektrum indirekter Befestigungen. Dank des im System enthaltenen TOKUYAMA UNIVERSAL BOND ist ESTECEM II auf allen prosthetischen Oberflächen ohne Einschränkungen universell einsetzbar. Ohne zusätzliche Primer oder Aktivatoren gilt auf allen Oberflächen immer die gleiche Vorgehensweise: 1:1 anmischen, applizieren, verblasen, fertig!

Zuverlässige Adhäsion

Da bei indirekten Restaurierungen nicht immer die Möglichkeit zur Lichthärtung gegeben ist (z.B. Metall-Kronen), kommt der sicheren Haftung insbesondere bei der chemischen Selbstaus härtung eine entscheidende Rolle zu. Unabhängige Studien zeigen, dass ESTECEM II auch in solchen Fällen eine zuverlässige Adhäsion gewährleistet, wo eine Lichthärtung nicht oder nur sehr eingeschränkt möglich ist.

Scherhaftfestigkeit an Dentin



Quelle:
Kurokawa, Miyazaki,
et al. Nihon University.
The 145th Meeting of
the Japanese Society
of Conservative
Dentistry, 2016

Ästhetik

Da ESTECEM II nach abschließender Lichthärtung nahezu wasserunlöslich ist, können sich in der Zementfuge kaum Verfärbungen bilden. Es zeigt sich eine ausgezeichnete Randspaltintegration, die auch nach Jahren noch farbstabil ist und eine ästhetische Einpassung der indirekten Restauration gewährleistet.

	ESTECEM II	RelyX Ultimate	Multilink Automix	Variolink Esthetic DC	Panavia V5	Panavia F2.0
Farbe	Universal	A1	Gelb	Hell	Universal	Hell
Vor Test						
Nach Test						
ΔE	4,6	8,8	11,0	19,8	12,5	11,8

Quelle: TOKUYAMA DENTAL R&D

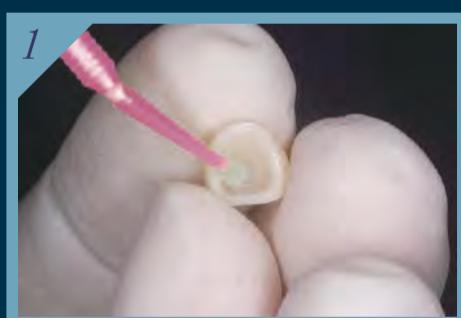
Universal Bonding & Dual-Cured Adhesive Resin Cement

ESTECEM II

- Simple & Versatile Procedure
 - Reliable Adhesion
 - Superior Esthetics



Procedure



Restoration and tooth pretreatment with TOKUYAMA UNIVERSAL BOND



Light-cure the excess PASTE with a dental curing light for 2 to 4 seconds



Remove the excess PASTE



Final PASTE hardening by light curing for 20 seconds or more
※Light-cure along margins for 20 seconds or more in case of non translucent restoration



Finished restoration

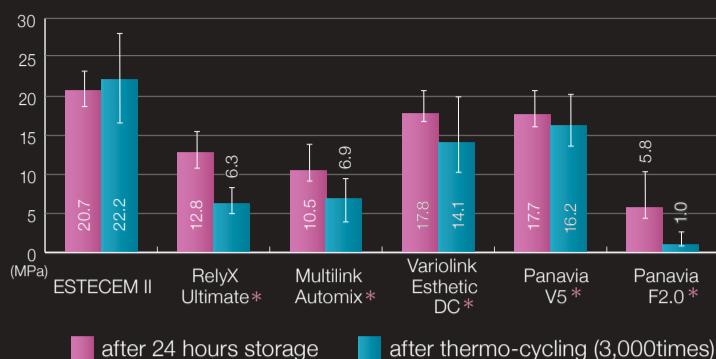
Bonding Performance

**TOKUYAMA
UNIVERSAL BOND**

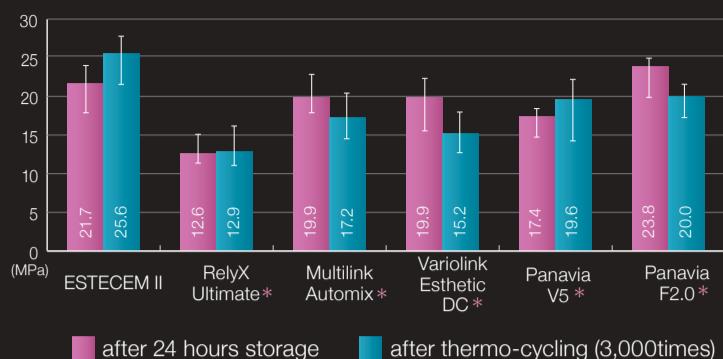


TOKUYAMA UNIVERSAL BOND promotes the adhesion of ESTECM II PASTE to both tooth structure and all prosthetic materials without the use of a separate primers.

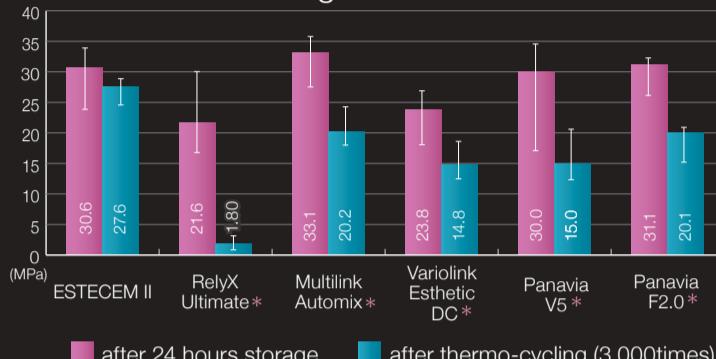
Tensile Bond Strength to Dentin **



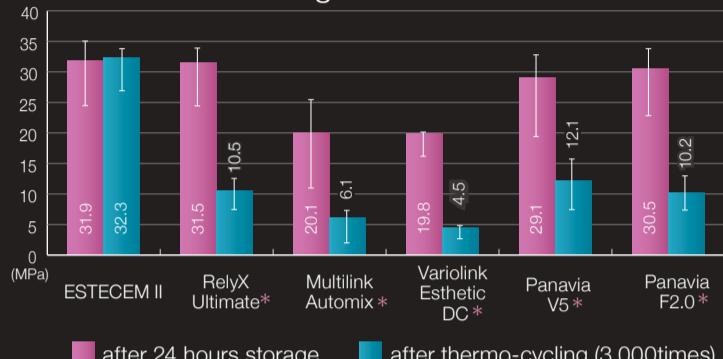
Tensile Bond Strength to Enamel **



Tensile Bond Strength to Ceramic **

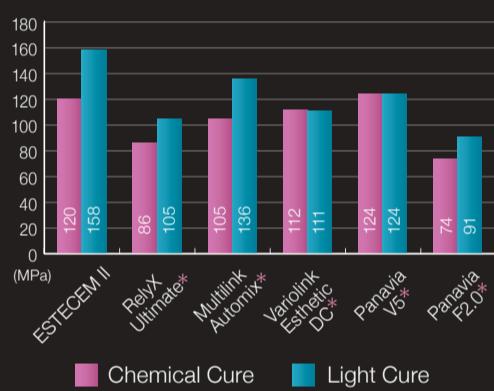


Tensile Bond Strength to Zirconia **

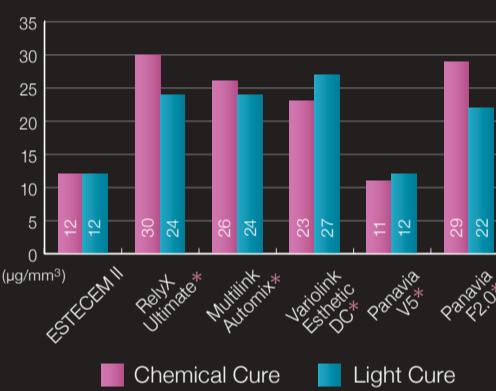


Optimized Properties for Long-lasting Esthetics

Flexural Strength **



Water Sorption **



Color Stability of Cement



* Not a registered trademark of Tokuyama Dental Corporation

** In-house data, R&D, Tokuyama Dental Corporation

Package Available



Kit (Universal)

PASTE (A/B) Universal/each 2.3mL(each 4.7g)	x 1	Nozzle for Mini Mixing Tip	x 5
TOKUYAMA UNIVERSAL BOND BOND A / 5mL	x 1	Disposable Applicator (Fine)	x 25
TOKUYAMA UNIVERSAL BOND BOND B / 5mL	x 1	Mixing Well	x 1
Cement Mixing Tip	x 15	Disposable Mixing Well	x 5
Mini Mixing Tip S	x 5		

Refill

PASTE A/B each 2.3mL (4.7g) (UNIVERSAL, CLEAR, BROWN, WHITE OPAQUE)	
TOKUYAMA UNIVERSAL BOND KIT (A/B) /5mL x 2	
TOKUYAMA UNIVERSAL BOND BOND A / 5mL	
TOKUYAMA UNIVERSAL BOND BOND B / 5mL	
Cement Mixing Tip / 40	
Mini Mixing Tip S / 40	
Nozzle for Mini Mixing Tip / 40	
Disposable Mixing Well / 50	

Shade Available



Specifications are subject to change without notice based on Manufacturers discretion.

Manufactured by

Tokuyama Dental Corporation

38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan

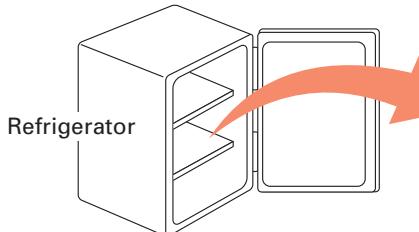
TEL:+81-3-3835-2261 FAX:+81-3-3835-2265

Email: export-2@tokuyama-dental.co.jp

URL: www.tokuyama-dental.com



The PASTE and TOKUYAMA UNIVERSAL BOND
should be brought to room temperature before using.

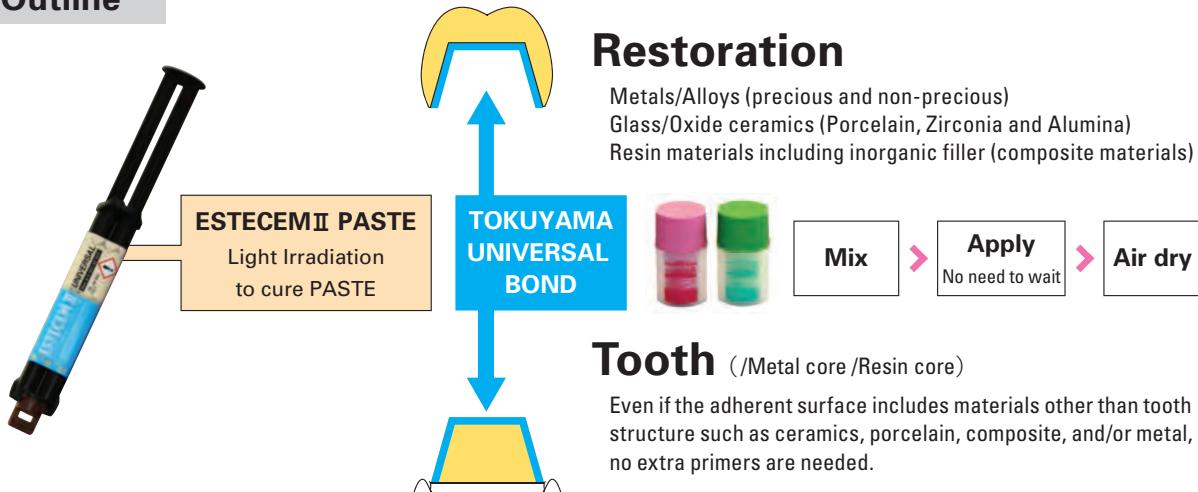


After removing from the refrigerator, allow the product to sit for 20 minutes or until it reaches room temperature.

If the syringe is not brought up to room temperature, you will find it difficult to squeeze out the paste.
If the bottle is not brought up to room temperature, you will find it difficult to dispense one drop of liquid.

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Outline



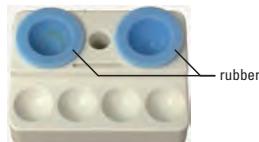
Point

How to dispense of TOKUYAMA UNIVERSAL BOND

ESTECEM II KIT includes two types of mixing wells.

The rubber mixing well should be used for a single restoration, whereas the disposable mixing well should be used for multiple restorations. Each mixing well provides a different working time; 1 minute with the rubber mixing well and 3 minutes with the disposable mixing well.

1) Mixing Well



Complete the application within 1 minute of dispensing when using the mixing well.

Use the rubber provided when using the mixing well. If TOKUYAMA UNIVERSAL BOND is not dispensed into the rubber it may be difficult to remove the cured TOKUYAMA UNIVERSAL BOND from mixing well. The cured TOKUYAMA UNIVERSAL BOND can be removed by inverting the rubber.



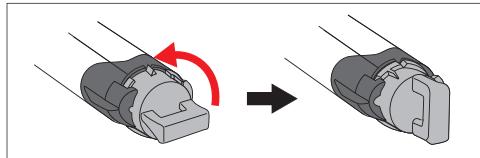
After mixing, the color of TOKUYAMA UNIVERSAL BOND changes gradually based on the reaction of the catalyst of TOKUYAMA UNIVERSAL BOND, this is normal and does not indicate a problem with TOKUYAMA UNIVERSAL BOND.

2) Disposable Mixing Well

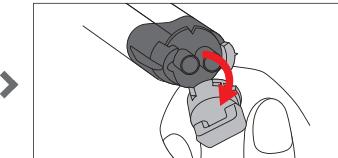


Complete the application within 3 minutes of dispensing when using the disposable mixing well.

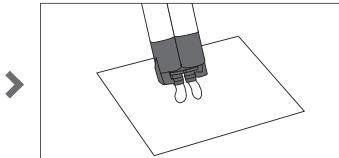
How to attach the mixing tip



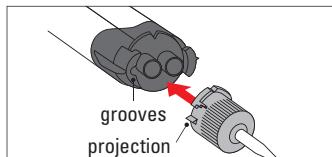
Turn the cap 1/4 of a turn counterclockwise to align the projections on the cap with the grooves in the syringe



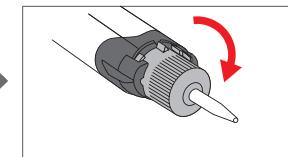
Holding the base of the cap, remove the cap by twisting and pressing downward



Before each use, squeeze out a small quantity of PASTE A and B, making sure equal amounts are being dispensed through the two outlets of the syringe



Attach a mixing tip to the syringe aligning the projections on the mixing tip with the grooves in the syringe as closely as possible



Turn the mixing tip 1/4 of a turn clockwise to lock it in place

Clinical Procedure Guide for ESTECM II

Read instruction before operation



1 Tooth Preparation

Remove contamination from the tooth surface such as plaque, temporary cement residue, oil mist from materials to test crown fit, oil from a hand-piece, saliva, blood and exudate fluids by brushing with flour pumice, ultrasonic scaling or cleaning the surface of the tooth with alcohol. Thoroughly rinse and dry the surface.



2 Restoration Preparation

Follow the procedure shown below, depending on the material to be restored.

- 1) Ceramics other than Porcelain, and Composite materials
Roughen the interior of the restoration by sandblasting (0.1 to 0.2MPa), air abrasion or grinding with a diamond bur using a slow speed to prepare the surface for adhesion.

2) Porcelain

DO NOT roughen the surface; Prepare the interior of the restoration, providing a clean and fresh surface for adhesion.

3) Metal restorations

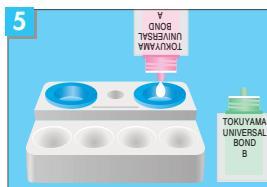
Roughen the area by sandblasting (0.3 to 0.5MPa), air abrasion or grinding with a diamond bur using a slow speed to prepare the surface for adhesion.



3 Thoroughly rinse the surface

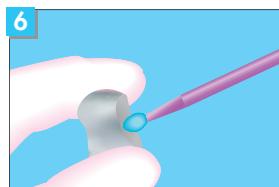


4 Dry the surface



5 Restoration and Tooth Pretreatment with the TOKUYAMA UNIVERSAL BOND

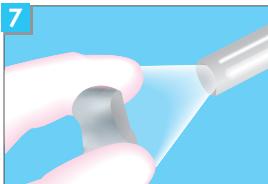
Dispense one drop each of TOKUYAMA UNIVERSAL BOND A and B into the mixing well or disposable mixing well and mix.



6 Apply the mixed bond on the surface of the restoration to be bonded.



Mixing Well	Complete the application within <u>1 minute</u> of dispensing
Disposable Mixing Well	Complete the application within <u>3 minutes</u> of dispensing



7
Apply mild air to the surface.



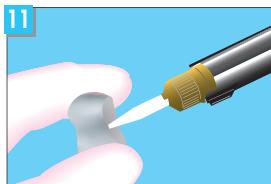
8
Apply the mixed bond on the surface of the tooth to be bonded.



9
Apply weak air continuously to the surface until the runny bond stays in the same position without any movement, then mild air to the surface.



10
Cementation and Final Bonding
Attach a mixing tip to the syringe according to "How to attach the mixing tip".



11
Apply the mixed PASTE to the surface of the restoration and place the restoration on the tooth with firm pressure.



12 **Removal of excess PASTE**

- When using the light-cure method:
Light-cure the excess PASTE with a dental curing light for 2 to 4 seconds and remove the gel state of the excess PASTE.
- When using the self-cure method:
Remove the gel state of the excess PASTE within 1 to 3.5 minutes after seating.



13 **Final PASTE hardening by light curing**

- In case of translucent restoration materials such as ceramics:
Irradiate the light to the applied PASTE on the seated restoration for 20 seconds or more.
- In case of non translucent restoration materials such as metal:
Light-cure along margins for 20 seconds or more, then allow the PASTE to set for 8 minutes.

*If light curing is not enough, there is a possibility of poor adhesiveness.