

Glass Ionomer Cement For Luting

TOKUSO IONOMER LUTING CEMENT



An excellent mixability, a sharp hardening property and an extremely thin film thickness achieves a superior cementation.

A Light and Smooth Mixing.

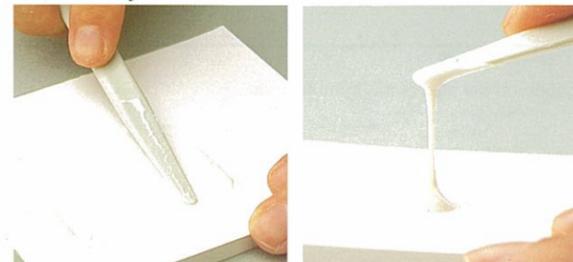
The smooth setting achieves the excellent physical properties required by the clinic.



Easy to mix with an excellent high fluidity of liquid

The best properties of cement can be achieved by mixing the powder and liquid at the standard powder / liquid ratio. It is hard for conventional cements to achieve ideal properties because of their low fluidity of liquid and inaccurate measuring spoons. Because of the high fluidity of liquid in TOKUSO IONOMER, it is easy to mix at the standard powder / liquid ratio, thus ensuring excellent properties as a luting cement should.

Mixability



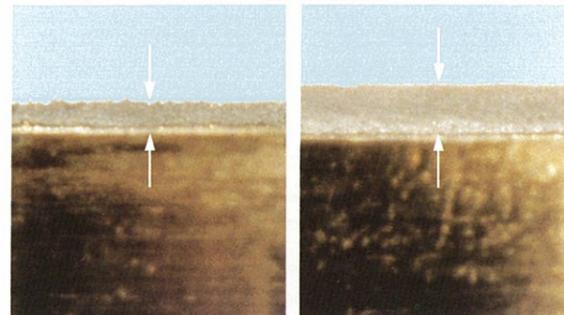
Smooth mixing

High fluidity

It achieves a film thickness of 16 microns

Because of the high fluidity of the mixed material and the fine powder, a film thickness as thin as 16 microns can be achieved. Thus, TOKUSO IONOMER achieves an excellent adaptation for the luting of prostheses.

Comparison of film thickness



TOKUSO IONOMER

BRAND A

Sharp hardening reduces the influence of water

The high fluidity of TOKUSO IONOMER allows for easy application to teeth, prostheses and a smooth setting. It allows enough working time and hardens quickly after the setting of the prostheses. Hardening is difficult to be influenced by water. The smooth setting achieves the excellent physical properties required at the clinic.

Low collapsing

Because of its ability to limit collapsing in water, there is not a need to worry about the looseness of the prostheses or secondary caries. The high marginal sealing ensures the retaining of the prosthesis for a long time in the cavity.

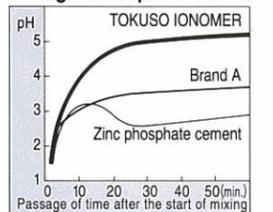
High adhesive strength

Its high adhesive strength and mechanical strength achieves an excellent cementation between the teeth and the prosthesis.

Less harmful effect to the pulp

TOKUSO IONOMER is designed to minimize the harmful effects to the pulp in addition to the high affinity with human tissue as Glass Ionomer Cement, thus making it easy to be used as a luting cement.

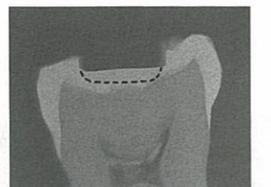
Change in the pH over time



Excellent radiopacity

It is easy to diagnose even a interdental space after the clinical procedure with its excellent radiopacity.

Radiopacity



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Usage:

Luting inlay, crown and bridge, or attaching of an orthodontic band. Cavity lining or primary teeth filling.

Package:

Set Powder : 36g
Liquid : 20g
Powder Measuring Spoon 1
Mixing Pad 1 Set
Spatula 1

Note:

- 1) Be sure to tightly close both the powder and liquid bottles after using, and store them in a cool and dry area.
- 2) Keep the nozzle of the bottle separate from the mixing pad when dropping the liquid in order to measure the liquid accurately.
- 3) Be careful not to allow any bubbles to occur while dropping the liquid.
- 4) Wipe any residue liquid attached to the nozzle of the bottle with a wet gauze etc.
- 5) Avoid mixing the powder or liquid of other brands with those of TOKUSO IONOMER.
- 6) Keep all zinc oxide eugenol away, because it will prevent the hardening of TOKUSO IONOMER.

Technical Information

Powder / Liquid ratio	1.7	1.9 (Standard P/L ratio)	2.1
Hardening time (Minutes *Seconds)	4' 30"	4' 10"	3' 40"
Compressive strength (MPa)	157 (5)	169 (7)	172 (9)
Thickness of film	15	16	19
Collapsing ratio	0.29	0.28	0.27
Adhesive strength to enamel (MPa)	4.2 (0.7)	5.8 (0.8)	5.9 (1.0)
Adhesive strength to dentin (MPa)	3.6 (0.5)	3.6 (0.7)	3.7 (0.8)

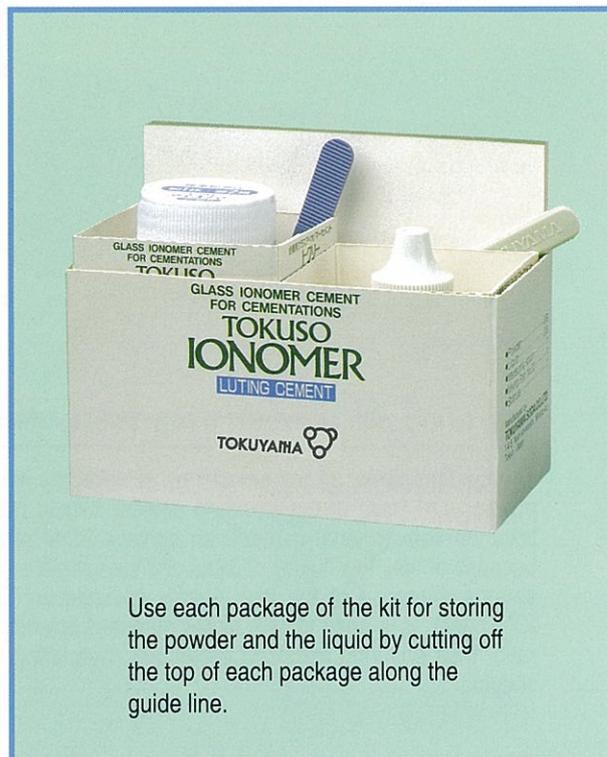
() = Standard Deviation Measured by Tokuyama Soda Tsukuba Laboratory

Standard Powder / Liquid ratio

Powder : 1 measuring spoon provided (1.9g)

Liquid : 2 drops (1.0g)

Change the viscosity of the mixed material by adjusting the amount of powder in case the measurement is not standard.



Use each package of the kit for storing the powder and the liquid by cutting off the top of each package along the guide line.

Specifications are subject to change without notice and without obligation on the part of the Manufacturer.

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Manufacturer

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