

RESIN MODIFIED GLASS
IONOMER LUTING CEMENT
INSTRUCTIONS FOR USE

Riva Luting Plus is the ideal radiopaque, self-curing resin modified glass-ionomer luting material. With excellent tooth adhesion, high fluoride release and flowability, it is useful for a wide range of clinical applications. Riva Luting Plus is available in a universal light yellow shade in capsule form and in powder / liquid kits.

INDICATIONS FOR USE:

1. Cementation of resin, metal, or porcelain fused to metal inlays, onlays, bridges and crowns.
2. Cementation of porcelain inlays.
3. Cementation of pins, posts and screws.
4. Cementable reinforced all ceramic crowns.

CONTRA-INDICATIONS:

1. Pulp capping
2. Product may cause skin irritations to some people. In such cases, discontinue use and seek medical attention. Any persons having known resin allergies should immediately discontinue use.

INSTRUCTIONS FOR USE:**1. PREPARATION:**

- a) Isolate tooth. In cases where pulp protection is necessary, use a calcium hydroxide liner.

b) Surface preparation with Riva Conditioner

- i) Apply Riva Conditioner (SDI Limited) to the prepared surfaces.
- ii) Leave on tooth for 10 seconds.
- iii) Wash thoroughly with water.
- iv) Dry with oil free air (do not desiccate tooth surface).

ORSurface preparation with Super Etch 37% Phosphoric Acid

- i) Apply Super Etch (SDI Limited) to the prepared surfaces.
- ii) Leave on tooth for 5 seconds.
- iii) Wash thoroughly with water.
- iv) Dry with oil free air (do not desiccate tooth surface).

2. MIXING PROCEDURE**CAPSULE SYSTEM:**

Powder/Liquid ratio	0.40g/0.20g (2/1)
Mixing time (min, sec.)	10 seconds
Working time (min, sec.)	2'10"
Test conditions: temperature (23 ± 1°C), relative humidity (50 ± 10%). ISO 9917-2 (Class 1: Radiopaque Glass Polyalkenoate Cement)	
Setting time (min, sec.)	4'30" (approximately)
Minimum delivery/capsule	0.19 mL

- a) Remove a capsule from the foil pack.
- b) Push the plunger down on a hard surface.
Important: Do not click with applicator before you mix.
- c) Immediately place activated capsule into the Ultramat 2 amalgamator or any high speed capsule mixer (4000 – 4800 rpm).
- d) Triturate for 10 seconds.
- e) Immediately remove the capsule and place into the *Riva Applicator 2*. Click the trigger of the capsule applicator 3 times to prime the capsule. Click once more to extrude the material directly onto the bonding surfaces as shown in step 3.
Note: The mixing time can be set from 8 – 12 seconds on high speed amalgamators such as the Ultramat 2. The shorter the mixing time, the longer will be the working and setting times. Likewise, longer mixing times will shorten them. Avoid pauses between activation, mixing and application, as extrusion from the capsule will be difficult or even impossible as soon as the material starts to set.

POWDER / LIQUID SYSTEM

Powder/liquid ratio (1 level large scoop to 3 drops of liquid) (1 level small scoop to 1 drop of liquid)	2.5/1.0
Mixing time (min, sec.)	20 seconds
Working time (min, sec.)	2'30"
Test conditions: temperature (23 ± 1°C), relative humidity (50 ± 10%). ISO 9917-2 (Class 1: Radiopaque Glass Polyalkenoate Cement)	
Setting time (min, sec.) approximately	4'30"

POWDER-LIQUID DISPENSING AND MIXING:

- a) Gently tap the jar. Use the double ended plastic scoop provided. Dispense either 1 level large scoop, or 1 level small scoop depending on the amount of material required.
- b) Carefully dispense liquid next to the dispensed powder:
Large powder scoop: 3 drops of liquid;
Small powder scoop: 1 drop of liquid;
- c) Add all the powder to the liquid using a plastic spatula. Quickly mix to a homogeneous paste for 20 seconds.
Note: Divide the powder into two equal parts for larger quantities. Mix the liquid with one part of the powder for 5 seconds, then include the second part and mix for 15 seconds (total 20 seconds). Replace powder jar and liquid bottle caps tightly after use. Mixing pad type: non-absorbent paper or glass slab. Note: Use a cool glass slab for extended working time.

3. CEMENTATION PROCEDURE:

- a) Ensure the internal surface of the restoration to be seated is cleaned, dried and prepared according to manufacturers instructions.
- b) Apply approximately 1mm of cement to the bonding surface.
- c) Seat restoration within 30 seconds of completing mix.
Note: Avoid overfilling crowns. Room temperatures above 23°C/73°F will reduce the working time.
- d) At the first formation of the gel stage, remove excess cement.
Note: Continued manipulation of the material after the working time will reduce adhesion.
- e) Maintain isolation until set is verified.

STORAGE AND HANDLING:

- Do not remove Riva Luting Plus capsules from their foil packets until ready to use.
- Store at temperatures between 4°C - 20°C (39°F - 68°F) for capsules and 4°C - 25°C (39°F - 77°F) for powder/liquid kits.
- Use at room temperature between 20°C and 25°C (68°F - 77°F).

PRECAUTIONS:

For professional use only.
Keep out of reach of children.
Do not take internally.
Do not use after expiry date.
Do not mix powder or liquid with any other brand of glass ionomer products.
Caution: Federal Law restricts this device to sale by or on the order of a dentist.
MSDS available at www.sdi.com.au or contact your regional representative.

FIRST AID:

Eye (contact): Wash thoroughly with water and seek medical attention.
Skin (contact): Remove using a cloth or sponge soaked in alcohol. Wash thoroughly with water.

Ingestion: Drink plenty of water/milk. Seek medical attention if symptoms persist.

Inhalation: (powder) Remove to fresh air. If breathing is difficult, seek medical attention.

SHADE:

- Light Yellow

PACKAGING:

- Boxes of 50 capsules
- Powder (25g) / Liquid (10g / 8.95mL) kit
- Powder (25g) refill
- Liquid (10g / 8.95mL) refill

Made in Australia by SDI Limited

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Brazil 0800 770 1735

France 00800 022 55 734

Germany 0800 100 5759

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4°C
39°F

20°C
68°F

capsule



4°C
39°F

25°C
77°F

powder/liquid