



# riva light cure

ENGLISH

## LIGHT CURED RESIN REINFORCED GLASS IONOMER RESTORATIVE MATERIAL INSTRUCTIONS FOR USE

Riva Light Cure is the ideal radiopaque, resin reinforced glass ionomer restorative material. With excellent tooth adhesion, sustained fluoride release, high compressive strength and command set, Riva Light Cure is useful for a wide range of restorative applications. It is available in A1, A2, A3, A3.5, A4, B2, B3, B4, C2, C4 and bleach shades, in capsules and powder-liquid kits.

**INDICATIONS FOR USE:**  
Minimal Class I, II, and III restorations  
Class V restorations  
Deciduous teeth restorations  
Geriatric restorations  
Core build-ups  
Root surface restorations  
As a base or liner  
Pit and fissure sealant  
Semi-permanent fillings

### INSTRUCTIONS FOR USING RIVA LIGHT CURE CAPSULES

**PREPARATION:**  
1. Clean and isolate tooth.  
Note: A conservative cavity should be prepared, employing standard techniques and instruments. Undercuts are not necessary.  
2. Place rubber dam and wedges.  
3. In cases where pulp protection is necessary, use a calcium hydroxide liner.

**CONDITIONING:**  
1. Apply Riva Conditioner to the prepared surfaces.  
2. Leave in cavity for 10 seconds.  
3. Rinse thoroughly with water.  
4. Remove excess water. Keep moist. Avoid contamination.

**IMPORTANT:** Be careful not to completely dry the surface. Surface should be glistening.

**PLACEMENT PROCEDURE:**  
1. Activate the capsule by pushing the plunger until it is flush with the body.  
2. Immediately place the capsule into the Ultramat 2 amalgamator, or any other suitable mixer (4000-4800rpm), and triturate for 10 seconds.  
3. Immediately remove the capsule and place into the Riva applicator.  
4. Click the trigger of the Riva applicator until glass ionomer paste is seen through the clear nozzle.  
5. Fill Riva Light Cure into the cavity, being careful not to trap air under the restoration. Note: At 23°C/74°F working time will be about 130 seconds (2'10'') from the start of mixing. In situations above this temperature, working times will shorten. Adhesion strength will decrease if material is manipulated after this time. Use a layering technique for cavities deeper than 2 mm.  
6. Light cure for 20 seconds using the SDI Radii LED Curing Light or any other visible light-curing device (470 nm wavelength). Place light source as closely as possible to the cement surface.

Powder/Liquid ratio (g/g)	3.1:1
Mixing time (min, sec.)	10 seconds
Working time (min., sec.)	2'10''
Light Curing Time (sec)	20''
Depth of Cure (A3) (mm)	1.8
Minimum delivery/capsule	0.31g (0.14mL)

Test conditions: temperature (23 ± 1°C), relative humidity (50 ± 10%).  
ISO 9917-2:1998 Light-activated radiopaque glass polyalkenoate cement.  
Minimum net contents per capsule: 0.50g powder and 0.16g (0.14mL) liquid.

7. Finish the restoration using standard techniques. Finishing may be commenced immediately after light curing.  
8. Instruct patient not to eat for at least one hour after procedure.

### INSTRUCTIONS FOR USING RIVA LIGHT CURE POWDER / LIQUID KITS

**PREPARATION:**  
1. Clean and isolate tooth.  
Note: A conservative cavity should be prepared, employing standard techniques and instruments. Undercuts are not necessary.  
2. Place rubber dam and wedges.  
3. In cases where pulp protection is necessary, use a calcium hydroxide liner.

**CONDITIONING:**  
1. Apply Riva Conditioner to the prepared surfaces.  
2. Leave in cavity for 10 seconds.  
3. Rinse thoroughly with water.  
4. Remove excess water. Keep moist. Avoid contamination.

**IMPORTANT:** Be careful not to completely dry the surface. Surface should be glistening.

**MIXING OF LIQUID AND POWDER:**

Powder-liquid dosage:	1 flat scoop to 2 drops
Powder-liquid ratio:	0.22g/0.07g (3.1:1)
Recommended mixing time:	30 secs.
Light Curing Time (sec)	20''
Depth of Cure (A3) (mm)	1.8

Test conditions: temperature (23 ± 1°C), relative humidity (50 ± 10%).  
ISO 9917-2:1998 Light-activated radiopaque glass polyalkenoate cement.

Mixing pad type: non-absorbent paper or glass slab  
NOTE: Cool glass slab for extended working time. Avoid condensation.

1. Gently tap Riva Light Cure powder jar on the hand.  
2. Dispense one level measure of powder onto the mixing pad/glass slab. Replace cap tightly.  
3. Dispense two drops of liquid onto the mixing pad/glass slab next to the powder. Quickly replace cap tightly.  
4. Divide the powder into two equal parts.  
5. Mix the liquid with one part of the powder for 10 seconds using a plastic spatula, then include the second part and mix for another 15 to 20 seconds.

**PLACEMENT PROCEDURE**  
1. Place Riva Light Cure into the cavity, being careful not to trap air under or within the restoration.  
Note: At 23°C/74°F working time will be about 120 seconds (2'00''). In situations above this temperature, working times will shorten. Adhesion strength will decrease if material is manipulated after this time. Use a layering technique for cavity deeper than 2 mm.

2. Light cure for 20 seconds using the SDI Radii LED Curing Light or any other visible light-curing device (470 nm wavelength). Place light source as closely as possible to the cement surface.

3. Finish restoration using standard techniques. Finishing may be commenced immediately after light curing.

4. Instruct patient not to eat for at least one hour after procedure.

**STORAGE AND SHELF LIFE**  
Do not remove Riva Light Cure capsules from their foil packets until ready to use.

Store at temperatures between 4° and 20°C (39° - 68°F).  
Use at room temperature between 20° and 25°C (68° - 77°F).  
Shelf life: 2 years (capsules), 3 years (powder jar) 2 years (liquid bottle).

**PRECAUTIONS:**  
For professional use only.  
Keep out of reach of children.  
The above-mentioned products may cause skin irritations to some people. In such cases, discontinue use and seek medical attention.  
Do not take internally.  
Do not inject SDI products.  
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](http://www.sdi.com.au) or contact your regional representative.

**FIRST AID:**  
In case of Riva Light Cure and Riva Conditioner contact with eyes, wash thoroughly with water and seek medical attention.  
In case of contact with skin, remove using a cloth or sponge soaked in alcohol.

**AVAILABLE SHADES:** A1, A2, A3, A3.5, A4, B2, B3, B4, C2, C4, Bleach

- PACKAGING**
- 50 Capsule Boxes
  - Assorted Capsule Box: 10 each of shade A1, A2, A3, A3.5, B2
  - Powder Liquid Kits : 8g (7.2mL) Liquid Bottle, 15g Powder Jar, accessories
  - 8g (7.2mL) Liquid Bottle Refill
  - 15g Powder Jar Refill

Made in Australia by SDI Limited  
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Germany 0800 100 5759  
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4°-20°C  
39°-68°F



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