



## Resiment Ready-Mix Dual-Cure Plus Resin Cement

Resiment Ready-Mix Dual-Cure Resin Cement was developed especially for all fixed ceramic and porcelain restorations, veneers and zirconia Maryland Bridges. Its especially strong physical properties are the result of a 70 percent filled composite with glass filler particle size of 1 micron or less. This cement becomes virtually invisible under any tooth-colored restorations to create an extremely natural-looking appearance. The enhanced physical properties PLUS the Advanced Self Curing Accelerator guarantees a deep cure necessary for the cementation of light-transmitting fiber posts.



### Why Use Resiment Ready-Mix Dual Cure Plus

- True dual cure chemistry with anaerobic accelerator assures complete polymerization under all restorations and in light transmitting fiber posts.
- Two stage curing allow easy clean-up of flash around crown margins.
- Ideal viscosity.
- Resiment Ready-Mix Dual Cure Plus is not technique sensitive and does not require gel barrier to cure.
- Versatile uses include: Cementation of All Ceramic and Porcelain restorations including Veneers, light transmitting fiber posts and zirconia Maryland bridges.
- Will not change color with age.
- Dual cured
- Filled composite resin cement (70 %)
- Use: Luting of all fixed ceramic and porcelain restorations and light-transmitting posts, Metal Crowns, bridges, inlays, and onlays (also porcelain-fused-to-metal and composite-to-metal)
- Fiber/non-metal and metal (prefabricated or cast) endodontic posts.
- Porcelain crowns, inlays, and onlays (includes zirconia and alumina)
- Visible with X-Ray.
- Should be used with contemporary adhesives.

### Specification

Compressive strength	280 MPa (37,330 psi)	pH	7
Flexural Strength	121 MPa (16,100 psi)	Water solubility	.07
Film thickness	25 μ	Radiopaque	Yes

### Working and Setting Time

Working Time is 3.5 to 4 minutes at 22 degrees C / 72 degrees F Room Temperature. Setting Time is approximately 7.5 to 8 minutes at 37 degrees C / 98 degrees F Body Temperature. Warm intraoral environment will accelerate working and setting times. The cement will set quickly when it comes in contact with primers on the tooth.

### Presentation

Each formulation is presented in a Kit format: 1 dual syringe containing 4 grams of base and 4 grams of catalyst 15 mixing tips ( bulk packages of 50 tips are also available).

Item	Description
RRM-DCC	Resiment Ready-Mix Dual Cure Plus Clear Standard
RRMT-50	Resiment Mixing Tips (Bulk package of 50)

## Technical Information

### Directions For Use

#### ALL-CERAMIC/PORCELAIN RESTORATION CEMENTATION.

##### Tooth Preparation:

- Remove temporary restoration and clean prepared tooth and try in final restoration for optimum fit. If eugenol-containing temporary cement has been used clean the preparation with pumice to remove all traces of cement. Eugenol will affect curing of many composite materials.
- Etch prepared tooth per manufacturer's instructions.
- Apply contemporary adhesive per manufacturer's instructions.

Preparation of All-Ceramic/Porcelain Restoration: (Contact laboratory for proper internal surface treatment i.e. Etching. Different ceramics require different surface treatments.

- If the restoration requires silane, apply 1-2 thin coats to the internal surface prior to try-in of the restoration. Wait for 30 seconds. Dry with air syringe. Apply silane coupling agent to the internal surface for 30 seconds and Dry with air syringe.
- Apply one coat of contemporary light-cured adhesive and air dry. Light-cure for 10 seconds. OR Apply a thin layer of a light-cured bonding resin, Air thin. DO NOT LIGHT-CURE
- Cementation of Restoration

#### IMPORTANT. PLEASE READ PRIOR TO USE.

##### PREPARATION OF READY-MIX SYRINGE:

Remove cap from unused syringe and slowly and evenly depress the plunger until equal portions of the base and catalyst components are expressing evenly and simultaneously from their respective openings at the end of the double barrel. The system is now ready for use. Secure the mixing tip onto the bayonet attachment fixture of the barrel syringe. Be sure to align the notch of the mixing tip with the groove on the attachment fixture of the syringe. Give tip a quarter turn to the right to secure tip in place. After use, dispose of the mixing tip and be sure to replace with the original cap locked in place. If the cap is misplaced, a used mixing tip can be left on the syringe until the next use. Do not leave the syringe barrel openings exposed for prolonged periods or during storage. Be careful not to cross-contaminate base and catalyst components at attachment openings.

- Inject auto-mixed Resiment cement into restoration. Keep mixing tip immersed in expressed cement to avoid air entrapment and bubbles.
- Gently Seat the restoration with light, passive pressure and hold until Resiment reaches initial set (Approx. 1.5 minutes). For faster clean-up and to accelerate set time, immediately after seating restoration, light cure all sides of margin for no more than 2 to 3 sec (each side) Cement will reach a semi-solid, gel phase
- Remove cement with a brush or instrument. Carefully remove excess flash from margin.
- Light-cure each surface of the restoration for 40 seconds. Intra-oral set time for auto cure mode is approximately 5-6 minutes.

#### CEMENTATION OF LIGHT-TRANSMITTING FIBER-POST

##### 1. Preparation of Post Space:

- Etch according to manufacturer, instructions, and rinse with water.
- Use a large paper point to blot the canal dry leaving the dentin slightly moist.
- Apply a contemporary adhesive according to the manufacturer, instructions.
- Blot the canal dry for a second time with a new paper point until the canal is dry. It is IMPORTANT that all pooled primers be removed to insure that there is no interference in complete seating of the post.
- Light-cure adhesive according to manufacturer, instructions.

##### 2. Cementation of Post:

- Post must be coated with an adhesive according to manufacture, instructions.
- (REMEMBER TO FOLLOW INSTRUCTIONS FOR PREPARATION OF READY-MIX SYRINGE TO ENSURE PROPER MIXING)
- Dispense a portion of the auto-mixed Resiment onto a lentulo spiral or paper point and coat the walls of the post space and fill the prepared space with cement. Excess cement can be placed upon the shank of the post for secure retention.
- Place the post into the canal gently and maintain firm pressure for 5-10 seconds once the post is seated.
- Stabilize post by light-curing coronal portion for 5 sec.
- Remove excess cement and light-cure for 40 seconds by placing the light tip on the post.
- Intra-oral set time for auto cure is approximately 7-8 minutes.
- Start restorative treatment.

**STORAGE:** Store at room temperature (20 C/68 F-25 C/77 F).

**PRECAUTIONS:** Uncured resins may cause skin sensitization in susceptible persons. In case of contact, wash skin with soap and water.

**WARRANTY:** J.L. Blosser, Inc. recognizes its responsibility to replace products if proven to be defective. J.L. Blosser, Inc. does not accept liability for any damage or loss, either direct or consequential, stemming from the use or inability to use the products as described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith.

**CAUTION:** U.S. Federal Law restricts this device to sale by or on the order of a dental professional

**CERTIFICATIONS:** FDA, CE, Health Canada

**MATERIAL SAFETY DATA SHEETS (MSDS):** The current Material Safety Data Sheets for Resiment Ready-Mix Dual-Cure Plus is available at [www.jlblosser.com/msds.htm](http://www.jlblosser.com/msds.htm)