Active Cem™

Resin modified glass ionomer, self-adhesive triple-cure permanent cement

For professional dental use only

EN INDICATIONS

- Permanent cementation of crowns and bridges, inlays and onlays, posts and cores, ceramic crowns, and Maryland bridges.
- Proven color stability over time.

PROPERTIES

- Active Cem is a resin modified glass ionomer, self-adhesive triple-cure, radiopaque permanent luting cement and does not require etching, priming, or bonding.
- Active Cem classification according to ISO 9917-2 is Type 3 and according to ISO 4049 is Type 2, Class 3.
- Active Cem has a radiopacity value above 2.5 mm Aluminium. (Radiopacity is defined as the ability of a material to be visible in x-ray photographs.)
- Forms ideal bond with metal alloys, porcelain, ceramic, dentin, enamel, amalgam.
- A triple-cure cement – glass ionomer setting mechanism, self-curing, light cured or immediate set and extra strength at the margins.
- When light-cured, performs immediate restorations stability and easy clean-up of excess cement.
- Features high retention and total margin integrity.
- Available in 1 shade: A2 - Universal. To see shade guide visit www.bjmlabs.com.
- Active Cem has been on the market since 2023 with no changes in formula. No complaints of any health-related or chemical performance issues were received.

PRECAUTION

- Active Cem contains polymerizable monomers which may cause allergic contact dermatitis in susceptible patients and damage the pulp. Avoid contact with skin, eyes, and soft tissue. Wash thoroughly with water after contact. If skin sensitization occurs or if known allergy to methacrylate resin exists, discontinue use.
- Active Cem contains materials which: sensitive to light / irritating to eyes / harmful if swallowed / irritating to respiratory system and skin / may cause sensitization by skin contact. For complete symbols guide see below.
- In case of contact with oral tissue or skin, remove immediately with a sponge or cotton soaked in alcohol and rinse with water.
- In case of contact with eyes, rinse with water and seek medical attention.

COMPOSITION

Essential ingredients – BASE	% wt.	Essential ingredients – CATALYST	% wt.
Comonomer diluents	<15%	Comonomer diluents	<20%
Polymerization activators	<1%	Bis-GMA	<30%
Photoinitiators	<2%	Initiators	<15%
Initiators	<2%	Photoinitiators	<1%
Bis-GMA	<25%	Glass filler	<50%
Polycarboxylic copolymer solution	<25%	Fumed Silica	<2%
Glass filler	<30%		
Fumed silica	<5%		

FILLER CONTENT

The filler system comprises glass fillers and modified silica:
40-50 weight-% or 20-30 volume-%.
The particle size of the fillers range: <6 um.

INSTRUCTIONS FOR USE

Note:

- **Use one Detachable Manual Adapter per one syringe lifetime.**

1. Remove cap off the Detachable Manual Adapter. Bleed the syringe to ensures complete flow of Base and Catalyst components.
2. Extrude equal amount of Base and Catalyst onto the selected mixing surface.
3. Using a clean spatula or mixing stick, mix the two components for 20-30 seconds into a homogenous paste. Avoid air bubbles.
4. Coat the internal surface of the restoration with Active Cem and seat immediately. Working time is 2 minutes and 30 seconds from start of mixing.

Base/Catalyst ratio (gr/gr)	1.0/1.0

5. Maintain moderate pressure to keep restorative remain in place.
6. Excess cement can be removed in its rubbery state using a scaler or explorer. For faster hardening cure with a blue light lamp for 20 seconds and then remove hardened excess cement.
7. Finishing can be started 4 minutes 30 seconds after seating the restoration.
8. Tightly re-cap syringe after use.
9. Use finishing strips for proximal areas. Polish margins with polishing discs, cups, or points.
10. Check occlusion.

Time indications:

The working and setting times depend on the ambient and oral temperature.
The times shown are based on conditions relevant for practice.

	min:sec
Working time at ambient temperature (from start of mixing)	>02:00
Intra-oral setting time (after setting the restoration)	<05:00

STORAGE AND DISPOSAL

- Do not store above 24°C (75°F).
- Keep product in original packaging.
- Keep away from direct sunlight.
- For optimum freshness, keep refrigerated.
- Do not freeze.
- If refrigerated, allow the syringe to reach room temperature.
- To obtain SDS or IFU visit www.bjmlabs.com.
- Do not use after expiration date. See expiry date on the label.
- Shelf life is 2 years after the date of manufacturing.
- Empty product can be safely disposed after use in an intended regular waste container. The product does not require special disposal instructions or precautions and is harmless to the environment.

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Symbols used on packaging

Consult instructions for use	
24°C 75°F max — Temperature limit	
Use by date	
Keep away from sunlight	
Irritant	
MD — Medical device	
LOT — Batch code	
REF — Catalogue number	
IL — Date of manufacture	
Manufacturer	

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ADVANCED DENTISTRY

B.J.M. Laboratories Ltd.
12 Hassadna St., Industrial Park,
Or-Yehuda 6022011, Israel
tel. 972-74-7000111, fax. 972-3-7353020
Info@bjmlabs.com, www.bjmlabs.com

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