

Poly-F®**Zinc Polycarboxyle Cement**

1 Product description

Poly-F is a zinc polycarboxylate cement complying with ISO 9917-1:2003 for permanent cementation, cavity lining or for temporary restorations.

For dental use only.

1.1 Composition

Powder: Zinc oxide
 Magnesium oxide
 Calcium-aluminum-silicate glass
 Tin fluoride

Liquid: Polyacrylic acid
 Water

1.2 Delivery form

Poly-F is a powder/liquid system for manual mixing.

1.3 Indications for use

Poly-F is indicated for

- cementation of inlays, crowns, bridges, facings and orthodontic brackets
- cavity lining under all restorative materials or following root canal treatment
- temporary restorations and restorations in deciduous teeth.

1.4 Contraindications

Direct or indirect pulp-capping.

2 Safety notes

2.1 Warnings

Avoid eye contact to prevent irritation and possible corneal damage. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

2.2 Precautions

This product is intended to be used as specifically outlined in these directions for use. Any use of this product inconsistent with the directions for use is at the discretion and sole responsibility of the dental practitioner.

2.3 Adverse events

No adverse events were reported.

2.4 Interactions

No negative interactions with dental materials are known.

3 Step-by-step instructions

3.1 Dentine Pre-Treatment and Pulp Protection

Dentine in close proximity to the pulp should be covered with a calcium hydroxide liner (DYCAL). The preparation is washed and dried, but not dehydrated.

3.2 Dispensing Material

1. Tap powder bottle on a firm surface to condense powder. Press powder measure firmly into powder. Strike off excess powder with spatula to make the powder flush with the end of the measure
2. Eject powder onto Poly-F mixing pad or glass slab by tapping the end of the measure with spatula.
3. Incline the bottle at a slight angle to the vertical as shown and dispense the number of drops required. Squeeze bottle to produce drop and release pressure after each drop is dispensed

3.3 Mixing¹

3.3.1 Mixing Ratio

For cementation:

1 measure of powder to 2 drops of liquid

For linings and fillings:

1 measure of powder to 1 drop of liquid

(For testing compliance with ISO 9917-1:2003 Type 1: 1.0 gm of powder to 0.5 g of liquid)

3.3.2 Mixing

Using a suitable spatula incorporate all the powder rapidly into the liquid. Mix until a creamy consistency is reached for a cementation material, or a putty-like consistency in the case of a lining/filling material.

3.3.3 Mixing time

30 seconds

3.4 Application of Poly-F

Apply cement immediately on the completion of the mix whilst appearance is glossy. Do not use after it starts to "cobweb".

¹ Mixing and application of the material should be done at normal room temperature. Higher temperatures accelerate the setting time of the cement. Under warm conditions or if a long working time is required, it is therefore recommended that the glass slab be cooled. For testing purposes according to ISO 9917:2003 the material is tested at 23 °C ± 1 °C and with a relative humidity of 50 ± 10 %.

3.4.1 Working time and setting time

	Working time *	Setting time
Cementation	3 minutes	6 minutes
Lining / filling	1 minute	4 minutes

* from begin of mix

3.5 Clean up

Excess material may be removed at once or when the cement has completely hardened. Do not touch the material when it is in the intermediate rubbery condition.

4 Hygiene

Due to the adhesive nature of Poly-F, spatulas, glass slabs and placement instruments should be wiped clean under running water immediately after use.

In order to avoid contamination of the Poly-F bottles and powder scoop prevent exposure to spatter or spray of body fluids and touch only with disinfected hands / gloves.

5 Storage and disposal

Store at temperatures between +10 °C and +24 °C. Store in a dry environment (< 80 % relative humidity). Keep out of sunlight. Replace cap tightly after use.

Humidity can adversely affect the properties of polycarboxylate cements. The desiccant crystals will protect the powder by absorbing the moisture in the bottle, but they are no longer effective after the colour has turned from orange to colourless.

Dispose the product in accordance with the local regulations.

6 Batch number (**LOT**) and expiration date ()

1. Do not use after expiration date.
2. The following numbers should be quoted in all correspondence.
 - Reorder Number
 - Batch number
 - Expiration date

7. Contact

If you have any questions, please contact:

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