

ZINC PHOSPHATE CEMENT

**Description:**

Alpha-dent® Zinc Phosphate Cement is specially formulated for superior strength, resistance to dissolution, and oral retention. It is impervious to oral fluids, and thus permanent under oral conditions.

Indications for Use:

- Cementation of inlays, onlays, crowns, bridges, and fixed orthodontics.
- Cavity lining under II restorative materials.

Contraindications:

None known.

Warning:

Alpha-dent® Zinc Phosphate Liquid contains phosphoric acid, a corrosive liquid. Avoid contact with eyes and skin. If contact is made, immediately flush with a copious amount of water for at least 15 minutes. Seek medical attention.

General Precautions:

1. U.S. Federal Law restricts this device to sale by or on the order of a dentist.
2. Review instructions and MSDS prior to beginning treatment. Use only as directed.

Adverse Reaction:

Allergic or pre-existing skin, eye and respiratory conditions may be aggravated by exposure to this product.

Instructions for Use:

1. Temperature influences reaction time. At higher temperatures, shorter working time and setting time will result. The temperature range for preparation should be 18-24° C.
2. Prepare the tooth. Isolate and dry the tooth thoroughly.
3. To obtain the desired consistency for cementation, dispense the powder and liquid next to each other on a glass slab or other suitable surface using the following proportion: 3 drops (0.13 grams) of **Alpha-dent®** Zinc Phosphate Liquid to 1 level scoop of **Alpha-dent®** Zinc Phosphate Powder (0.20 grams).
4. Divide the powder into four-equal parts or quarters. Divide one of these quarter portions into two parts, or two eighths. Then divide one of these eighth portions into two parts, or two sixteenths. You should now have 6 portions (1/4-1/4-1/4-1/8-1/16-1/16).
5. Using a non-corrosive spatula, mix one of the 1/16 portions of powder into the entire liquid for 10 seconds. Add the other 1/16 and mix for 10 seconds. Add the 1/8 portion and mix for 10 seconds. Then add consecutively two of the quarter portions mixing for 15 seconds after each addition. Add the final quarter portion and mix the entire amount for 30 seconds. This will give a total mixing time of 90 seconds.
6. Apply **Alpha-dent®** Zinc Phosphate Cement in a uniform layer. The working time is approximately 2 minutes from the start of mixing so placement of the cement should be done immediately. Complete setting of **Alpha-dent®** Zinc Phosphate Cement will occur 5.5 minutes from the end of mixing (net setting time). If a longer working and setting time is desired, mix the cement on a cold, dry glass slab. Excess cement should be removed at once with cotton or other suitable instrument or when the cement has completely hardened. Adding more powder will produce a thicker mix to be used for lining and will decrease working and setting time. If cement is too viscous, it should be discarded and mixing procedure restarted.

Storage:

1. Store material between 2°C/36°F to 27°C/80°F, bringing to room temperature before using (22°C/72°F). Do not freeze. See outer package for expiration date.
2. Keep powder and liquid bottles tightly covered when not in use.



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