

Bosworth Zinc Phosphate Cement

Permanent Cement for the Accurate Seating of Precision Appliances and Other Uses

Oxyphosphate of Zinc - Type 1: Fine Particle Size

ISO 9917-1 compliant for dental water-based cements.

DIRECTIONS

Mixing Utensils

One clean, dry glass mixing slab at a temperature of 18-24°C (65-75°F), a corrosion resistant spatula. The slab and spatula must be free from dust, set cement, moisture, etc.

Mixing Technique for General Use

Cement preparation should be done at ambient room temperature (65-75°F). One scoop of powder is placed on the slab and formed into a flat rectangular shape with a spatula. The powder is divided first into quarters, one of these quarters is divided into 2-eighths, and one of these eighths is divided into 2-sixteenths, so that there are 6 portions; 3-quarters, 1-eighth and 2-sixteenths.

Dispense 4-5 drops of liquid onto the slab; add 1-sixteenth portion of powder to the liquid and mix with a linear motion for 15 seconds. Add the 2nd sixteenth portion, mix for 15 seconds, then the 1-eighth portion, mix for 15 seconds, followed by 1-quarter portion, mix for 20 seconds, the 2nd quarter portion, mix for 20 seconds and the last quarter, mix for 35 seconds, completing the mix in two minutes. Each portion is to be thoroughly incorporated, with no unmixed particles of powder or liquid remaining around the edges.

A linear, not rotary, motion of the spatula is to be used with the edge of the spatula sweeping approximately half of the mixing area of the slab on each stroke. A mix made in this manner will flow reluctantly from the spatula and be so completely plastic as to allow the accurate placement of an inlay or crown no matter how precisely fitted. Maximum working time is 3-1/2 minutes. Net setting time is 2-8 minutes.

POWDER/LIQUID RATIOS

.24 g powder - .1 ml liquid

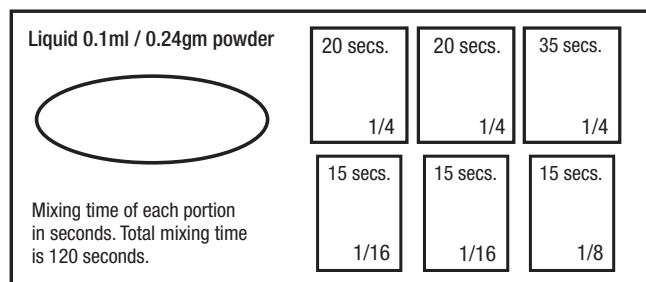
Finishing

Excess material may be removed at once or when the cement has completely hardened using a hand held instrument.

Mixing Requirements for Testing Purposes:

Liquid 0.3ml / 0.8gm powder (+/- gm) at a temperature of (23 +/- 1)°C and a relative humidity of (50 +/- 5%).

Mixing Technique



Thick Mix

A thick mix can be obtained by using a larger portion of powder with the same procedure.

Setting Time Control with the One Liquid

SLOW SETTING: Spatulate a pin-head of powder into the liquid required for your mix. Let this stand 2 or 3 minutes. Proceed to make your mix in the regular manner, spatulating as described above.

QUICK SETTING: Reduce mixing time by reducing the mixing time of each portion by half (see diagram), total mixing time, 1 minute.

KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE AND STORE AT NORMAL ROOM TEMPERATURE AWAY FROM VOLATILE MATERIAL. Although rare, hypersensitivity reactions have been noted with the use of other zinc oxide products; therefore, the possibility exists for developing a local sensitivity or allergic response to Bosworth Zinc Phosphate Cement.

ORDERING INFORMATION

REF 092107 Standard Kit

 29g Light Yellow Powder
  15 ml Liquid

REF 092108 Liquid – 15cc

REF 092109 Light Yellow Powder – 29g

BULK PACKAGING AVAILABLE.



Danger Liquid // Causes severe skin burns and eye damage. Refer to SDS for additional health, safety and disposal information.

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