

## Unitek™ Multi-Cure Glass Ionomer Orthodontic Band Cement

### Instructions For Use



- Storage between 2°C-27°C/35°F-80°F
- Light Sensitive
- Cherry
- Fluoride Releasing
- Liquid
- Powder

**General Information:** Unitek™ Multi-Cure Glass Ionomer Orthodontic Band Cement is a two-part, powder/liquid glass ionomer cement for orthodontic banding. The powder is a radiopaque, fluoroaluminosilicate glass. The liquid is a light sensitive, aqueous solution of a modified polyalkenoic acid. The chemical properties of the glass ionomer cements in general are such that fluoride leaches out from the material. Also, Unitek Multi-Cure Glass Ionomer Orthodontic Band Cement is available in cherry. Using the recommended powder/liquid ratio, this kit contains enough material to place a minimum of 120 bands.

Unitek Multi-Cure Glass Ionomer Orthodontic Band Cement will set by exposure to visible light. It also has self-curing mechanisms to provide a relatively rapid set where light does not penetrate.

**Warning:** Liquid contains HEMA (2-hydroxyethyl methacrylate). HEMA is severely irritating to the eye and is a known contact allergen. A small percentage of the population is known to have an allergic response to acrylate resins. To reduce the risk of allergic response, minimize exposure to these materials. In particular, exposure to uncured resin should be avoided. Use of protective gloves and a no-touch technique is recommended. If skin contacts liquid or powder/liquid mix, wash skin immediately with soap and water. Acrylates may penetrate commonly used gloves. If glove contacts liquid or powder/liquid mix, remove and discard glove, wash hands immediately with soap and water, and then reglove.

Liquid and powder/liquid mix may cause eye irritation upon contact and may be mildly irritating to oral soft tissue upon contact. Avoid contact with eyes and minimize contact with oral soft tissue. If contact with eyes occurs, flush immediately with large amounts of water. If irritation persists, consult a physician.

**Warning: Multi-Cure Glass Ionomer Band Cement is intended for use only as an orthodontic band cement. Do not use for cementing preformed stainless steel crowns, as damage to the tooth may occur upon debanding.**

**Caution:** This product has been designed to increase band retention. If you experience difficulty upon debanding, the use of a band splitter may be indicated for ease of removal. Follow manufacturer's direction on the handling, proper use and recommendations for eye protection when using a visible light curing unit.

#### Preparation

1. After removing separators, scale the gingival margins of teeth to be banded in order to remove any plaque.
2. Prophyl teeth with an oil free pumice or paste.
3. Rinse with water.
4. Trial fit each band to be placed on the patient.
5. After verifying proper fit, remove the trial fitted bands and clean.

**Tip:** To avoid getting cement in the buccal tube, wipe its mesial and distal ends with lip balm or cement guard.

**Dispensing of powder and liquid:** One level powder scoop (large) and three drops of liquid or one level powder scoop (small) and one drop of liquid (1.9/1 ratio of powder to liquid by weight) will provide an adequate amount of material for placing one large or small band respectively. Additional powder can be incorporated to obtain a thicker consistency mix. Additional liquid can be incorporated to obtain a thinner consistency mix.

Shake the bottle to fluff the powder before dispensing. Insert the powder scoop into the bottle, overfill it with loosely packed powder and withdraw it against the plastic leveler to remove excess powder and obtain a level scoop. Dispense the desired number of powder scoops onto the mixing pad.

To best obtain a proper liquid drop size, hold the liquid vial vertically with the dropper tip down and without the tip contacting the mixing pad. Squeeze the vial to dispense the desired number of liquid drops onto the mixing pad.

#### Mixing

1. Using a large cement spatula, first mix one-half of the powder into the liquid, and then add the remainder of the powder. Continue mixing until all of the powder is incorporated into the liquid. **Do not mix longer than 45 seconds.**
2. Working time of the standard powder/liquid ratio is 3 minutes from the start of mix at a room temperature of 73° F (23° C). **Higher temperatures will shorten working time. Lower temperatures will lengthen working time.**

#### Cementing

1. Isolate teeth to be banded. For lower bandings, also place cotton rolls between the tongue and molars.
2. Load the band with cement and seat on the tooth.

**Curing:** Unitek Multi-Cure Glass Ionomer Orthodontic Band Cement cures by either exposing it to visible light or by chemical reaction.

• **Light Cure:** After removing excess material with a scaler, light cure the Unitek Multi-Cure Glass Ionomer Orthodontic Band Cement by placing the light guide 1-2 mm above the occlusal surface of the tooth being banded and curing the material for 20 seconds using the Ortholux™ LED Curing Light. After the initial light cure, the chemical cures will continue the hardening of the material.

**Note:** The above mentioned curing time applies only to Ortholux™ LED Curing Light. Other curing lights, depending on their output intensity might require longer curing times.

• **Chemical Cure:** After placing the band on the tooth and cleaning up the excess, place a cotton roll over the band and ask the patient to bite on it gently to maintain position during the setting process. Self cure set time is 5 minutes from the end of mixing at **oral cavity temperature.**

After placing all the bands, remove cotton rolls and dry angles.

**Caution:** Spray dry angles with water before removing to prevent sticking to the patient's cheek.

#### Storage & Use

1. See outer package for use by date.
2. The glass ionomer system is designed to be used at room temperatures of approximately (21° - 24° C) 70° - 75° F.
3. The glass ionomer liquid is a light sensitive material. Protect it from ambient light exposure by dispensing just prior to use and replace vial cap immediately after dispensing.
4. The glass ionomer powder is sensitive to high humidity and light. Store with bottle cap securely tightened.

**Important Notice to Purchaser:** 3M Unitek will replace such product that is proved to be defective or refund the purchase price.

#### Contents of Unitek Multi-Cure Glass Ionomer Orthodontic Band Cement Kit REF 712-050

##### Item Description

- 1 Bottle of Multi-Cure Glass Ionomer Orthodontic Band Cement Powder (35g)
- 1 Vial of Multi-Cure Glass Ionomer Orthodontic Band Cement Liquid (25g)
- 2 Mixing Pads
- 1 Powder Dispenser

##### Instructions

#### Reorder Items For Unitek Multi-Cure Glass Ionomer Orthodontic Band Cement

REF #	Description
712-051	Reorder Powder Bottle (35g)
712-052	Reorder Liquid Vial (25g)
712-053	Reorder Powder Dispenser

**Caution:** U.S. Federal Law restricts this device to sale by or on the order of an orthodontic professional.

# 3M

3M Unitek  
Orthodontic Products  
2724 South Peck Road  
Monrovia, CA 91016 USA

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# CE

0086

European Representative:

3M Unitek

Ohmstrasse 3  
86899 Landsberg, Germany  
+49/(0)8191/ 9474-0