



# KUT GEL EP

## Multi Purpose Epoxy Resin Based Gel

MIS - 07 - 0104

### DESCRIPTION

"KUT GEL EP" is a thixotropic two component epoxy resin with exceptional adhesive and sealing characteristics. The base component is bluish White coloured and the hardner component is brownish yellow to facilitate ease of mixing.

### USES

It is designed for use as a surface sealant for crack injection systems. It is also used as bonding agent for common construction materials including asbestos, glass, timber and some plastics. It is also recommended for filling blowholes and minor surface irregularities prior to application of gap epoxy resin based coating systems.

### ADVANTAGES

- **Non Sag** : can be applied to vertical surfaces and trowelled into blowholes and cracks.
- **Easy to use** : Non-critical mixing ratios with simplified mixing.
- **Waterproof** : Suitable for wet exposure conditions.
- **Chemical Resistance** : Excellent to a wide range of chemicals.
- **Adhesion** : Better than tensile strength of concrete and normally tests show a failure in substrate.
- **Versatile** : Suitable for most common construction materials and conditions.

### TYPICAL PROPERTIES

- **Volume solids** : 100% - Solvent Free.
- **Pot life** : 20 minutes at 25° C and 5-10 minutes at 40° C
- **Cure time** : 6-8 hours at 25° C and 3 hours at 35° C 20 minutes at 80 to 100° C

- **Cure Temperature** : Curing takes place at temperature above 5° C. Higher temperatures leads to faster curing.
- **Limitation** : Maximum cure temperature 100° C.
- **Overcoatable** : 20° C - 8-24 Hours and 35° C - 4-18 Hours.
- **Chemical Resistance** : Resistant to oils, fats, petrol, salt and sugar solution, bleach, dilute acids, alkalis and various solvents.

### SURFACE PREPARATION

Surface to be bonded should be dry, sound and thoroughly clean. Smooth surfaces should be abraded or acid etched as appropriate - See below:

- **Surface** : Concrete, Asbestos, Cement etc. ,
- **Preparation** : Dry, Remove Laitance and loose material.
- **Surface** : Steel.
- **Preparation** : Steel surface should be clean dry and sand blasted to SA 2<sup>1/2</sup>,
- **Surface** : All other materials.
- **Preparation** : Clean, dry if wet and abrade.
- **Surface** : PVC
- **Preparation** : Clean with trichloroethylene or similar and abrade.

### MIXING :

Care should be taken to ensure that **KUT GEL EP** is thoroughly mixed to produce a full homogeneous paste. Normally, the entire contents of the "Hardener" should be emptied into the "Base" container and the components are mixed, obtain a uniform colour and consistency. After mixing, material can be taken directly from can or subdivided into several small portions on a flat board for individual applicators. However for small applications a proportion three (3) volumes of base and one (1) volume of Hardener can be used. This should be done as accurately as is practically possible. This is mixed together with a spatula or pallet knife.

### APPLICATION

- (i) For surface sealing in crack injection application: Apply the mixed product using a trowel, scraper or pallet knife as is appropriate.



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- (ii) For filling blow holes and surface irregularities: Usually using a trowel, application thickness will depend on substrate profile, however it will range from feather edge to a maximum of 5mm. For depths higher than 5mm use **KUT EPOXYMORTAR GP** for horizontal applications and **KUT EPOXYMORTAR HB** vertical and overhead situations.
- (iii) As a bonding adhesive : **KUT GEL EP** is applied to both surfaces in a thin even film and the two surfaces pressed together. An adhesive layer of between. 100 and 200 microns should be used. Care should be taken to obtain the correct positions for the parts any bond will be difficult to break and reposition. Extrusion of the adhesive, should be prevented, but light clamping or suitable support is necessary. Excess glue should be removed from the joints with a sharp knife, or a damp cloth before it sets.

### LIMITATIONS

**KUT GEL EP** should not be exposed to moving water during application. Expose to rainfall prior to final set may result in surface scouring.

### CLEANING

Tools and equipment must be cleaned with water immediately after use. Hardened **KUT GEL EP** can be removed from pliable polythene beakers by flexing.

### PACKAGING

**KUT GEL EP** is available in 0.750 kg. Pack, 6 packs in carton for large users.

### PRECAUTIONS

**(I) SAFETY:** Use of gloves is recommended and use face mask if working in closed areas.

**(II) STORAGE:** Store in dry conditions upto 20° C.

**(III) SHELF LIFE:** 12 months in original unopened packs. If stored at higher temperature the shelf life may be reduced to 6 to 9 months.

**(IV) FIRE:** **KUT GEL EP** is non flammable but will burn in a fire.

### HEALTH AND SAFETY

"**KUT GEL EP**": should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalations of the vapors. Some people are sensitive to hardner component therefore, protective gloves, goggles and barrier cream should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. If this product comes in contact with skin, it must be removed before it gets dry by washing with soap and plenty of clear water and seek medical advice. If swallowed, seek medical attention immediately. **DO NOT INDUCE VOMITING.**

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