

KUT EPOXY MORTAR FC

Epoxy Based Fairing Coat,
Concrete Adhesive & Anode Shield

REP-15-1110



DESCRIPTION

KUT EPOXY MORTAR FC is thixotropic solvent free, two component based on epoxy resins, graded fillers and thixotropic agents, specially formulated to meet a range of service temperatures from 25°C to 60°C. The base component is white coloured and the hardener is black to facilitate ease of mixing.

USES

- For filling blow holes, making fair slightly damaged concrete, eliminating minor irregularities prior to painting or coating. Highly recommended for repair of structures that will be permanently submerged in water, sea water like water intake areas in power plants etc.
- As an adhesive for bonding pre - fabricated concrete bridge segments.
- As an anode shield & Cavity Filler.

ADVANTAGES

- Non – sag, can be applied to vertical surfaces and trowelled into blow holes.
- Paste like consistency.
- Chemical resistant.
- Excellent bonding to concrete surface.
- Cures and hardens without shrinkage, hardening is not affected by high humidity.
- High strength and E – Modulus.
- Can be applied from feather edge to 10 mm thickness even on damp or wet substrates.
- Manufactured in Kuwait for severe climatic conditions of the Middle East.
- Suitable for marine and buried applications.
- Suitable for concrete as well as steel and some other metals.

TYPICAL PROPERTIES

Specific Gravity:	1.70
Volume Solids:	100%
Compressive Strength:	24 hrs. - 60 N/mm ² 7 days - 75 N/mm ²
Pot Life:	2 hours at 25°C 45 mins at 35°C 20°C - 8 to 24 hours 35°C - 4 to 18 hours
Mixed Colour:	Grey
Shear Strength:	5.5 N/mm ² and will meet and exceed bonding requirements in concrete – concrete bonding.
Squeezability:	Very good thixotropic squeezable consistency paste.
Chemical Resistance:	Resistant to oils, fats, petrol, salt & sugar solution, bleach, dilute mineral acids, alkalis & various solvents.
Bond Strength @ 10 mm thickness to Mild steel (without primer) –	6 N/mm ²
Service Temperature:	25° to 60°C.

APPLICATION INSTRUCTIONS

Substrate Preparation: Steel surfaces should be cleaned, dry and sand blasted to SA 2 ½. Concrete surfaces should be clean, dry and free from dust & laitence. Sand blasting or mechanical wire brushing may be necessary.

Mixing: **KUT EPOXY MORTAR FC** should be thoroughly mixed to produce a fully homogenous paste. The hardener and base components should be mixed thoroughly using a drill and paddle attachment not exceeding 400 rpm. Mixing part packs is not preferable, but in case of such need mixing ratios are 3 base : 1 hardener by volume or by weight. **KUT EPOXY MORTAR FC** can be finished using water wet sponge, water wet trowel to obtain smooth finish before initial set.



مصنع التخصصية لكيماويات البناء
SPECIALITIES CONSTRUCTION CHEMICALS FACTORY

Marketed by: Alghanim Specialities Co. W.L.L
Amghara Industrial Area, P.O.Box: 23595 Safat, 13096 Kuwait
Tel: 1802550 – 400 - Fax: +965 24582548 - Email: sales@spec-kw.com



Application: A variety of tools such as trowel, scrapper, filling knife can be used. After mixing, material can be taken directly from the can, or sub divided into spot boards for individual applicators.

- As an adhesive for bonding pre – cast concrete segments, glove protected hands can also be used to apply **KUT EPOXY MORTAR FC** to one or both of the surfaces.
- **KUT EPOXY MORTAR FC**, when used as a fairing coat can be overcoated with all **KUT** range of epoxy coatings within 8 to 24 hrs. of operation.

Cleaning: Use **KUT SOLVENT EP** for cleaning uncured **KUT EPOXY MORTAR FC**. Cured material can only be removed mechanically.

PACKING & COVERAGE

KUT EPOXY MORTAR FC - 1 & 6 kg. packs.
KUT SOLVENT EP - 5 ltr. cans

Coverage: A 6 kg. pack covers 3.5 m² in 1 mm, yielding 3.53 ltrs. per 6 kg. pack

Thickness: Depending on the condition of substrate.

STORAGE

Shelf Life: 12 months if kept in unopened tins and stored in a dry place away from sunlight at 20°C.

Storage Conditions: Store in dry conditions in the original and unopened packs. If stored in high temperatures the shelf life may be reduced from 4 to 6 months.

PRECAUTIONS

Cleaning: Spillages should be absorbed with sand or earth etc. and disposed in accordance with local regulations. Clean tools and equipment with water / solvent immediately after use.

PERFORMANCE STANDARDS

ASTM C 881 – Type 1 & 4, Grade 3 Class B & C. Passes ASTM C 883 & ASTM C 884.

HEALTH & SAFETY

KUT EPOXY MORTAR FC should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles & barrier cream should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. If mixed resin comes in contact with skin, it must be removed before hardening with a resin removing cream, followed by washing with soap and plenty of clean water and seek medical advice. If swallowed seek medical attention immediately. Do not induce vomiting.

Fire: **KUT SOLVENT EP** is flammable. Do not expose to naked flame or other sources of ignition. No smoking. Containers should be tightly sealed when not in use. In the event of fire extinguish with CO₂ or foam.

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