

KUT FILLET PAK

Fillet Packing And General Purpose Repair Mortar

REP-05-1110



DESCRIPTION

KUT FILLET PAK is supplied as a ready to use two component product consisting of a dry powder (Part A) requiring only the addition of the liquid aqueous polymer (Part B) to produce cohesive easily applied mortar. The dry powder is a careful blend of cements, graded sands, Microsilica, water reducing agents auxiliary/modifying polymer, polypropylene micro fibres and a polymer (Part B) component **KUT FLEXI** is to enhance the general characteristics of the repair mortar.

It is designed to give excellent adhesion to concrete in the plastic state and deliver low porosity and long durability repair mortar. The **KUT FILLET PAK** is modified with expansive agents to compensate for the shrinkage of this mortar in the plastic state and also during the first 3 days of the hardening period.

USES

KUT FILLET PAK is a multi-application polymer modified cementitious mortar for structural repair and reinstatement of damaged concrete.

It is used to form concave fillets or coverings between parapet walls and roofs.

It is used for packing and filling junction fillet strips or chisel opened gaps between walls and floors in water leaking basements and tie-rod holes in concrete structures.

It is used in marine environments to repair damaged concrete, beams and columns.

ADVANTAGES

Easy to use: Easily trowel applied product with 20 minutes retained workability at 25°C.

Constant quality: Factory controlled prepacked materials, eliminates site-batching variations.

Fibre reinforced: Minimises plastic cracking.

Durability: The low ratio of the liquid polymer to dry powder delivers low porosity and good resistance to the penetration of chlorides in marine environments.

Iron free: No metallic iron is included which cause staining or deterioration due to rust expansion

Chloride free: Good, early strength development without the use of chlorides.

Non-shrink: Shrinkage compensating agents present.

TYPICAL PROPERTIES

Compressive strength: BS 4550 at 25°C. at liquid polymer-powder ratio 0.10.

Age (days)	Compressive strength (N/mm ²)
7	34
28	50

Flexural Strength: BS 1881 - at 25°C - 9 N/mm²

Wet density: BS 1881 – 2150 kg/M³ giving a yield of 12.8 litres per bag at mortar consistency.

Bond strength: BS 6319 slant/shear – substrate concrete - slurry primed with excess of Part-B (KUT FLEXI) @28 days 55 N/mm².

APPLICATION

Ensure that competent assessment on the extent of repair has been made defining area and depth. Cut back concrete at edge or fillet and repair to minimum depth of 10mm. Do not feather edge.

Steelwork: Corrosion products should be removed from all exposed steel using mechanical means, grit or water blasting.

Steel Primer: Steel work should be primed before new corrosion form. Use a slurry coat of **KUT FILLET PAK** made with extra quantity of liquid Polymer **KUT FLEXI** as a steel primer.

Concrete: All the damaged concrete should be cleaned by sand blasting or high pressure water jet blasting. All friable and unsound concrete should be removed. Soak the concrete with water to reduce surface absorbency. A slurry coat of the repair material should then be applied as a primer over the concrete surfaces.



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Mixing: Place liquid polymer in the mixer. Add gradually 25kg powder product and stir with slow speed drill fitted with paddle or mix preferably with mechanical mixer. Mix 3 to 5 extra minutes to obtain a smooth cohesive mortar. Use 2.5 to 3.5kg of **KUT FLEXI** per bag of **KUT FILLET PAK**.

Placing: Place the mortar by hand and trowel to ensure that it is well consolidated. The minimum application thickness should be 5mm. The maximum practical application thickness on vertical surfaces is 15mm in several applications.

Curing: When this mortar is set, cure all repaired surfaces with water or wet burlap, hessian or polyethylene membrane. Use **KUT CURE P** or **KUT FLEXI** itself as a curing membrane over the repair area.

Coverage: 2.5 kg/m² per pack at 5mm thickness.

Packaging: **KUT FILLET PAK** dry powder is available in 25kg bags.

The liquid polymer **KUT FLEXI** is available in 5 kg pails.

PRECAUTIONS

Cleaning: All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

Protection: All works must be protected from rain, frost until fully hardened.

Storage: Shelf life is 12 months when stored, in dry conditions at moderate temperature and humidity.

HEALTH AND SAFETY

KUT FILLET PAK is non-toxic but is mildly alkaline. Gloves should be worn during application. Splashes water to the skin or eyes should be removed with clean. In the event of prolonged irritation, seek medical advice.

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