

KUT SUPERCOAT No. II

Polymer Modified General Purpose Repair Mortar

REP-07-1110



DESCRIPTION

KUT SUPERCOAT No. II is supplied as a ready-for-use 2-component product consisting of a dry powder and a specially formulated aqueous synthetic resin polymer which after mixing produce a highly cohesive easily applied repair mortar.

This product is formulated as a new technology blend of cements, microsilica, non metallic reinforcing fibres, selected graded aggregates water reducing chemicals and shrinkage compensating auxiliary agents.

The special liquid polymer **KUT FLEXI** is an aqueous binder modified with auxiliary chemical agents to improve the final properties of **KUT SUPERCOAT No. II**.

The **KUT SUPERCOAT No. II** mixed polymer mortar has excellent adhesive and cohesive characteristics. It is a low porosity and long durability mortar which can be used in both vertical and overhead repair works.

USES

It is used for the reinstatement of damaged concrete, walls, soffits, beams and columns.

It is recommended for internal as well as exterior application for inland and marine environmental exposure.

ADVANTAGES

Constant quality: Locally manufactured, always fresh products.

High build: Can be applied in one application 30mm thick on walls and 20mm on soffits.

Adhesion: Excellent to sound concrete substrates and steel reinforcement.

Iron free: Contains no metallic iron to introduce future deterioration due to rust expansion.

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

Non-shrink: Shrinkage compensated.

Fibre reinforced: Minimised plastic Shrinkage.

TYPICAL PROPERTIES

Compressive strength: BS 4550 at 25°C at a Polymer Powder ratio 0.12.

Age (days)	Compressive strength (N/mm ²)
7	28
28	38

Flexural Strength: BS1881 at 25°C 5 N/mm² at 28 days.

Wet density: BS 1881 – 1750 kg/M³ giving a yield of 15 litres per 30 kg pack at mortar consistency.

Bond strength: BS 6319 slant/shear - substrate concrete with **KUT FLEXIBOND** slurry primer @ 28 days 40 N/mm².

APPLICATION

Planning: Ensure that competent assessment on the extent of repair has been made defining area and depth.

Concrete: Cut back concrete at edge of repair to minimum depth of preparation 10mm. do not feather edge. Use mechanical or hand tools. Clean concrete by grit blasting or water jet blasting.

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

Steel Primer: Exposed repairs and steel work should be primed with a slurry coat of **KUT SUPERCOAT No. II** using little extra quantity of liquid polymer (**KUT FLEXI**) before new corrosion forms on the exposed metal.

Concrete primer: Concrete should first be soaked with water to reduce the absorbency. A priming coat of **KUT FLEXI/KUT SUPERCOAT NO. II** slurry should then be applied to the concrete. Apply repair mortar whilst the primer is still tacky.



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Mixing: Pour 3 to 3.5 litres of the aqueous polymer in a mixer and gradually add 25 kg bag of powder stirring with a slow speed drill fitted with paddle or preferably mix in a mechanical mixer. Adjust to required consistency using **KUT FLEXI**.

Mix only as much as can be used within the pot life of the product.

Mix 3 to 5 minutes after all the powder is added into the polymer to obtain a smooth lump free cohesive mortar.

Placing: Place the mortar by trowel ensuring that it is well consolidated and compacted behind the reinforcing steel.

NOTE: The mortar must be placed whilst the concrete primer is still tacky. If not, it is necessary to reprime with **KUT FLEXI** based slurry.

It can be installed in several layers to achieve a maximum thickness of 100mm.

Curing: When the repair mortar has set, protect it immediately with wet rags or burlap and keep moist until properly set. Alternatively use **KUT FLEXI** as a curing membrane.

Consult our Technical Sales Dept. when curing membranes should be used to receive future paints, tiling or other surface decorative finishing.

Packaging: The powder component is in 25 kg bags. The liquid polymer **KUT FLEXI** is in 5 kg pails.

PRECAUTIONS

Coverage: Each pack will give 15 litres of mortar and will cover 3m² per pack at 5mm thickness.

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.

Fire resistance: **KUT SUPERCOAT No. II** is not flammable.

PERFORMANCE STANDARDS

The applicable standards for conformance and testing are: **BS - 4550, BS - 1881.**

HEALTH AND SAFETY

KUT SUPERCOAT No. II is non-toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with, clean water. In the event of prolonged irritation, seek medical advice.

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