

KUT OVERHEAD MORTAR

High Build Repair Mortar



REP-02-1110

DESCRIPTION

It is supplied as a ready to use dry powder requiring only the addition of water to produce a cohesive and easy to apply mortar.

KUT OVERHEAD MORTAR is a new technology polymer modified blend of Portland cement, selected graded sands, Microsilica, non-metallic special reinforcing fibres, light weight micro aggregates, water resistant polymer sand water reducing agents.

It is formulated for vertical and also overhead applications in outdoor and indoor repair works.

KUT OVERHEAD MORTAR is specially made to produce a cohesive highly adhesive repair mortar with low water requirement. It produces a low porosity, long durability repair mortar.

USES

It is made for general purpose wide range multi-application repairs and patching of damaged concrete walls, soffits, columns, overhead beams, spalled concrete, roof, parapet walls etc.

ADVANTAGES

Easy to use: Can be trowelled and hand applied.

Constant quality: Factory controlled prepacked material, eliminating site batching variations.

High Build: Can be applied at 40-60mm thick on walls and 20-30mm thick on soffits in one application.

Adhesion: The admix of special polymer deliver excellent adhesion to sound concrete substrate and steel

Reinforcement: Modified with Poly propylene micro fibres to minimise cracking and shrinkage

Iron free: Contains no metallic iron and hence future rust expansion and deterioration is avoided

Chloride free: Early strength development without the use of chlorides.

Yield: Higher yield per kg as compared to other repair mortars.

Non-shrink : Shrinkage compensated.

TYPICAL PROPERTIES

Compressive strength : BS 4550 - (N/mm²) at 25°C and water to powder ratio 0.160.

Age (days)	in (N/mm ²)
7	24
28	31

Flexural Strength: BS 1881 - at 25°C - 5 N/mm² at 28 days

Wet density: BS 1881 – 1500 kg/m³, a 18 kg bag will Yield 14 litres at mortar consistency.

APPLICATION

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

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

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

Steel prime r: The steel should be primed before new corrosion products form. If the repair material is to be applied within 2 or 3 hours, a slurry coat of **KUT OVERHEAD MORTAR** adding extra 10% water into the mix can be used as a steel primer.

Concrete primer: The concrete should be first soaked with water to reduce the absorbency. A full coat with stipling action using a slurry of **KUT FLEXIBOND** mixed with **KUT OVERHEAD MORTAR** or neat cement should then be applied to the concrete. Apply the repair mortar whilst the primer is still tacky.



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Repair Mortar: Place 2.9 to 3.2 litres of water into a mixing pail. Add gradually 18 kg bag of powder and stir with slow speed drill and paddle or preferably with mechanical mixer. Mix for 3 to 5 minutes after all powder has been added to obtain a smooth cohesive mortar.

Placing: Use the wet on wet principle placing the mortar by hand or trowel whilst the primer is still tacky and ensuring that it is well consolidated behind the reinforcing steel. The application thickness should be minimum 5mm and maximum 80mm in one application.

Curing: When mortar is set, cure the exposed surfaces with a thin coat of **KUT FLEXIBOND** or as listed by standard concrete practice.

Packaging: **KUT OVERHEAD MORTAR** is supplied in 18 kg bags.

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.

Fire resistance: The product is not flammable.

PERFORMANCE STANDARDS

The applicable standards for performance and testing are:

BS - 1881

BS - 4550

BS - 4551

HEALTH AND SAFETY

The product 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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