

DECK REPAIR RAPID

Fast Setting Horizontal Repair Mortar

Description

A prepacked acrylic polymer modified shrinkage compensated cementitious repair mortar characterised by its high early strength development and rapid moisture loss. The material has been designed to comply with the requirements of the Department of Transport Standard BD27/86 Clause 6 and is an ideal material for the repair of bridge decks prior to waterproofing, highway concrete pavements, repairs which require a fast return to service, emergency reinstatement of damaged or deteriorated concrete, bus depots, airport runways and aprons.

Advantages

- Rapid setting characteristics.
- Chloride free.
- Excellent bonding properties.
- Simple to use, only requires addition of water.
- Ideal for internal and external use.
- Ideal for use in cold, wet conditions.
- Low water/cement ratio.

Technical Information

Typical compressive strength results in N/mm² using 70.7mm cubes tested in accordance with BS1881 Part 116.

Water Addition:	2.5-3.125 litres per 25 kg pack
W/C Ratio:	0.37 @ 3.125 litres per 25 kg
Density:	2260 kg/m ²
Yield:	12.5 litres per 25 kg pack

Maximum Aggregate

Size:	6mm
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Cement Content:	>400 kg/m ³
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Chloride Content:	<0.1% by weight of cement
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Non-reactive aggregate as regard to Alkali Silica Reaction

Moisture Content 1 hr after placing, 6% as measured using Protimeter Moisture Meter.

Temp	Usable Life (Mins)	Compressive Strength N/mm ²				
		1 hr	2 hr	4 hr	24 hr	7 days
20°C	12m	8	15	28	41	55
5°C	20m	--	8	18	30	52

The product will be capable of accepting pedestrian and vehicular traffic after 2 hours @ 25°C.

Design Criteria

Deck Repair Rapid is designed for horizontal repairs up to a normal thickness of 70mm. Vertical repairs can also be accommodated by the aid of formwork. For sections greater than 70mm and up to 300mm use the Deck Repair Rapid with 10mm graded, silt free aggregate in equal proportions.

Surface Preparation

1. Ensure surface is clean, free from laitance, loose material, grease or oil. If necessary cut out until a clean, sound surface is obtained, preferably cutting the edges square rather than feather edging.
2. Thoroughly moisten surface but ensure no free water remains.

Mixing & Placement

Deck Repair Rapid should be mixed in a forced action mixer with clean water adding the Deck Repair Rapid to the water until the required consistency is obtained. Place the mix to the desired thickness and compact thoroughly, minimum bed thickness 10mm. Finish as required and immediately clean all equipment with water.

Deck Repair Rapid can be used down to temperatures of 0°C. However, when the temperature is below 5°C it is recommended that the mixing water is between 10 - 20°C and the bag to be used has been stored in temperatures above 10°C prior to use. At low temperatures it is important to ensure that the substrate has not frozen.

Curing

Deck Repair Rapid should be cured using polythene sheeting taped around the edges.

Packaging

Deck Repair Rapid is available in 25 kg packs (Yield 12.5 litres).

Storage

Deck Repair Rapid should be stored in dry conditions and protected from damp.

Limitations

Excessive water addition will reduce strength and possibly induce shrinkage cracking as experienced with all cementitious compounds. Due to fast setting nature of the product, strength development is very dependent on ambient temperature.

Health & Safety

Deck Repair Rapid does not present any undue hazard and is non-toxic, however, as it is alkaline, gloves should be worn and any material should be washed from the skin and eyes before it dries with clean water. The normal standards of hygiene should be observed and the use of a barrier cream is advisable.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



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