



ROTAFIX UNDERWATER MORTAR

DESCRIPTION: Rotafix Underwater Mortar powder is a blend of special cement powders, high quality graded sands, and a unique combination of polymers and admixtures. The powder, when mixed with water, produces a mortar which is wash-out resistant and waterproof. The material develops an early strength, and can be used above or below the waterline.

PACKAGING: Supplied in nylon sacks – 25kg.

PREPARATION: All necessary preparatory work must be completed before the mortars are mixed. Ensure that all surfaces with which the mortars come into contact are clean, free of contamination and marine growth.

MIXING: Rotafix Underwater Mortar powders are mixed with water using a suitable container, a pneumatic or electric power tool (1kw), and a Rotafix Paddle. Only mix amounts of mortar that can be successfully applied in 20 minutes. Mixing by hand is NOT recommended. Add 4.5 litres of water to the container or mixer. Pour 25kg of powder onto the water while mixing. After all the powder has been added, mix for 1 minute. The mortar is then ready to use. Alternatively, small amounts of the material can be prepared slowly adding the powder to a quantity of water and mixing to required consistency.

APPLICATION: Mix the mortar powders with water to a good mortar consistency, and wait a few minutes for the mortar to gel. With the use of a gloved hand and fingers, form a CONTACT COAT: RUB the mortar onto and well into any cracks or cavities, and completely cover the substrate. A contact coat applied properly will reduce voids at the bondline, and promote intimate contact between the repair material and the concrete. It will also prevent peeling and slumping on vertical and soffit substrates. On top of the contact coat, use a trowel or steel float to apply the material and bring up the profile of the surrounding concrete. For ease of application of the mortars above the waterline, and to remove stickiness, keep gloves and all implements wet. Use hand held water spray to wet mortar surfaces, and to produce smooth and attractive finishes.

COVERAGE: Rotafix Underwater Mortar: Yield: 25kg of powder yields 14.00 litres of good mortar
1m³ of good mortar requires 1.800 tonnes of powder.

CURE SCHEDULE: Rotafix Underwater Mortar: Typical data at 18% water/powder ratio at 20°C.
CONSISTENCY: Good mortar consistency. CONSISTENCY LIFE: 20 minutes. DENSITY: 2080kg/m³.
MINIMUM COMPRESSIVE STRENGTH: 1 7 28 Days
15 30 50 Mpa

CURED PROPERTIES: The mortars develop an excellent putty consistency for ease of application. Can be used above and below the waterline. Will not disperse, wash-out or break up underwater. Strong impermeable bond to brick, masonry, steel and concrete. The material will not contaminate canals, rivers, reservoirs or lakes. The powder contains no iron, high alumina cement, chlorides or deleterious substances. Safe to use, non toxic, and non hazardous in underwater environments.

SPECIFIC USES: Offshore locations and applications
To repair and waterproof precast concrete, tunnels, culverts, sewers and pipes.
To point and repair bricks, blocks and masonry above or below the waterline.
The repair of concrete in tidal zones where time is limited.
The protection of marine structures above and below the waterline.
The consolidation of sea defenses, harbours, jetties, docks and locks.
To stop and seal the flow of water or grout in brickwork or concrete.
Caulking material for seals and joints, and for sealing shutters.
In situations where an early strength gain is required.

CLEANING OF TOOLS: Uncured ROTAFIX UNDERWATER MORTAR may be readily removed from tools and equipment with clean water.

Rotafix Underwater Mortar powders are non toxic and safe to use. However, use the same precautions as with any cementitious product: wear goggles, protective clothing and a dust mask while mixing and applying the materials.

The information in this document is based on practical tests, but given without guarantee inasmuch as methods of use by others is beyond our control. Due to continuing development and improvements, it may be necessary to change without notice the material specification. All goods are sold subject to our Standard Conditions of Sale.

ROTAFIX, ROTAFIX HOUSE, ABERCRAF, SWANSEA SA9 1UR. U.K.
TEL: +44 (0)1639 730481 FAX: +44 (0)1639 730858
e.mail: sales@rotafix.co.uk Website: www.rotafix.co.uk

SOUTHERN AREA CONTACT: TEL: +44 (0)1442 243169 FAX: +44 (0)1442 234901

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