

COSTAR UW MORTAR

Quick Strength Cementitious Underwater Mortar

Description

Costar UW Mortar is a ready to use, quick setting cement-based underwater mortar. The powder, when mixed with water, produces a mortar which is wash-out resistant and waterproof. It was explicitly designed for underwater repair works.

Features

- Easy to use
- Rapid setting
- Can be used above and below the waterline.
- Excellent bond strength to clean concrete, brick, masonry, steel and concrete.
- High resistance to wave action during placing
- Excellent resistance to sulphurous ground waters making it suitable for constant immersion
- It provides a watertight seal when used to repair leaks or seal joints
- Will not disperse, wash-out or break up underwater. Safe to use, non-toxic, and non-hazardous in underwater environments.

Uses

- Repairing eroded concrete or timber piles, sea walls, wharves
- Repairing leaks or joints in marine structures, concrete reservoirs, swimming pools, pipelines, well etc.
- Offshore locations and applications
- To repair and waterproof precast concrete, tunnels, culverts, sewers and pipes.
- The protection of marine structures below the waterline. The consolidation of sea defenses, harbors, jetties, docks and locks.
- To stop and seal the flow of water or grout in brickwork or concrete.

Application

- **Surface Preparation**
Ensure that the concrete surface to be repaired is sound and free from dirt, oil, laitance and any other deleterious substances, which reduces adhesion of material to the substrate. Weak, damaged and deteriorated concrete should be removed and edge of repair area should be recessed to a depth of 5mm to prevent feather edging.

To ensure satisfactory bonding, the prepared surface should be dampened down to minimize suction.

Preparation

Mix three volumes of Costar UW Mortar with one volume of fresh water only. Place the powder into the container and add half of the water while mixing with hand trowel for about two minutes. Add remaining water and mix thoroughly (3 minutes) until no white streaks are present. Mix only small batches at one time, mixed mortar must be placed within 5 minutes of mixing.

Costar UW Mortar should be made into a putty-like consistency and shaped quickly into balls of about cricket ball size.

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.

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A contact coat applied properly will reduce voids at the bond line, 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.

Yield

20kg of powder yields 11litres of good mortar

Packaging

20Kg bags

Storage and Shelf Life

Costar UW Mortar has a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs.

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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