

TOP CRETE 66



High strength shrinkage compensated repair mortar for concrete

PRODUCT DESCRIPTION

TOP Crete 66 is a ready-mix High Performance, Flowable Structural Micro Concrete is a pourable repair mortar designed for reinstating horizontal concrete surfaces damaged through concrete spalling and other chemical or mechanical causes, Top Crete 66 exhibits superior flow characteristics and is capable of being applied in thicknesses of 20mm to 200mm.

USES

- Top Crete 66 is the ideal material for vertical or horizontal structural repairs where the thickness of repair is more than 20mm and use of pourable mortar is preferable to hand or machine applied repair systems.
- Extensively used in repairs where conventional concrete placing and vibrating is difficult due to congestion of reinforcement.
- Repairs to bridges, tunnels, garages, silos, Jacketing of beams, columns and other structural elements for strengthening

ADVANTAGES

- Remove damaged concrete and prepare exposed steel reinforcement.
- Sprayable able to repair complex profiles Easily with minimal rebound.
- Fast and easy placing Reduced time for Repairs.
- Repairing of cracks and porous surfaces.
- Excellent impermeability to water

- Shrinkage compensated – reduced risk of cracking.

TECHINICAL PROPERTIES

Color & Appearance	Grey Powder
Water Powder Ratio	0.15
Density	2300 kg/m ³
Application Temperature	+5 to +40°C
Compressive Strength	30 Mpa at 1 days 45 Mpa at 7 days 68 Mpa at 28 days
Tensile Strength	5 Mpa at 28 days
Flexural Strength	8 Mpa at 28 days
Mixing Ratio Per Bag	Approx 3.25 to 3.75 litres

PACKING

TOP Crete 66 is supplied in 25 kg Bags.

STORAGE

12 Months in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Empty packs completely and dispose off carefully to protect our Environment.

APPLICATION PROCEDURE

Surface Preparation: Saw cut or cut back the extremities of the repair locations to a depth of at least 20mm to avoid feather-edging and to provide a square edge. Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae.

Where reinforcing bars are corroded, cut back the concrete to at least 20mm behind the reinforcing bars water powder ratio and coat the old and new reinforcement with Epoxy Zinc Rich Prime for superior protection from corrosion.

Defective concrete surfaces must be cut back to a sound base. Smooth surfaces should be mechanically roughened. Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is important to clean the steel to a bright condition. Grit-blasting is recommended.

MIXING: Only full bags are mixed. Damaged or opened bags should not be used. **Mix Top Crete 66** in a forced action pan mixer, or with a helical paddle attached to a low speed 300-600rpm mixer for 3 minutes until a lump free, thixotropic consistency is achieved. Only use clean water. Mixing water needed: 3.25 to 3.75 liters per 25kg bag. Allow the mortar to rest for 2 - 3 minutes and then remix briefly before applying. If the temperature is more than 35°C then use chilled water for the mixing water.

MORTAR APPLICATION

The minimum temperatures must be maintained during application and for at least 24 hours thereafter for optimum curing of the product. The prepared substrate should be pre-soaked, preferably for 24 hours, but at least 2 hours before applying Top Crete 66. The surface must be saturated surface dry, but without standing water. Top Crete 66 can be spray or hand applied. Apply mixed product directly to the prepared damp substrate, or wet in wet onto the primed surface. Spraying the material with the necessary pressure will ensure good adhesion of the material.

The formwork should be removed after 1-3 days and a curing compound applied. If subsequent coats are to be applied the use of clear polythene. A thin scrape coat or contact layer before building up to the required thickness, wet on wet, will improve adhesion especially in case of hand application. Apply to the desired layer thickness of 5-12mm to max 80 mm and level using a screeding bar, trowel or wooden board. Can be applied in thicker layers in smaller patches or where additional reinforcement is present. Smoothing with a trowel or finishing by float or sponge can be done as soon as the mortar has begun to stiffen.

PROTECTIVE COATINGS

Subsequent Protective coatings of Top protect anticarbonation barriers or silane impregnations should be applied as recommend on the individual datasheets.

CURING

In accordance with good concrete practice, all exposed surfaces of **Top Crete 66** must be immediately cured after application, using wet hessian covered with polythene sheeting.

CLEANING

Clean all equipment with water immediately after use.

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