

# TOP CRETE 80



## Non shrinkage trowelable fibre reinforced thixotropic repair mortar

### PRODUCT DESCRIPTION

**TOP Crete 80** is a ready-mix and non-shrinkage cement base dry powder, provides smooth level surfaces with highly consistent repair mortar for special purpose concrete and masonry repairs. And due to adhesive materials in it, it makes an excellent adhesion to most common substrate for vertical and horizontal surface, also provides waterproofing properties.

### USES

- **TOP Crete 80** Repairs to both new and old concrete structures or reinforced concrete elements, subject to aggressive Atmospheric conditions including chloride and sulphate attack.
- Suitable for placing in thicknesses of 12mm to 50 mm both vertically and overhead.
- To reinstate all types of concrete.
- Repairs to piers, dams, seawalls and other marine structures, bridges, tunnels, garages.
- High bond strength provides excellent adhesion.

### 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.
- Suitable for hydraulic structures.
- Shrinkage compensated – reduced risk of cracking.
- Chloride free and non metallic, hence no rusting or staining on exposed edges

- Low permeability to water, carbon dioxide and chlorides, reducing the risk of corrosion to reinforcement.

### TECHINICAL PROPERTIES

Color & Appearance	Grey Powder
Water Powder Ratio	0.15
Density	2150 kg/m <sup>3</sup>
Application Temperature	+5 to +45°C
Compressive Strength	30 Mpa at 1 days 60 Mpa at 7 days 78 Mpa at 28 days
Tensile Strength	5.3 Mpa at 28 days
Flexural Strength	9 Mpa at 28 days
Mixing Ratio Per Bag	Approx 3.25 to 4 litres

### PACKING

**TOP Crete 80** 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.

The concrete substrate should be thoroughly soaked with clean water immediately prior to the application of Top Crete Patch Repair. Any residual surface water should be removed from the surface prior to applying the product. Under severe drying conditions repeated soaking may be necessary to ensure the substrate is still saturated at the time of application.

**MIXING:** Only full bags are mixed. Damaged or opened bags should not be used. **Mix Top Crete 80** 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 4 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 30°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 80. The surface must be saturated surface dry, but without standing water. Top Crete 80 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.

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 12 mm to max 50 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 80** 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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