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Conpolycem

**A single component High strength, Shrinkage compensated,
Polymer modified structural repair mortar**

PRODUCT DESCRIPTION:

Conpolycem is a one component cementitious, fiber reinforced; polymer modified repair mortar (Microconcrete). **Conpolycem** is designed to be used for structural concrete repairs vertical or horizontal application as well as general patching to concrete and mortars.

When mixed with water, **Conpolycem** produces a flowable micro concrete ideally suited to poured/cast applications. It can be used on Brick, Stone Walls as well as Concrete surface

ADVANTAGES

- Excellent workability and Sulphate resistant.
- Adjustable consistency
- Especially suitable for overhead and vertical applications
- Reduced cracking tendency by incorporating synergistic shrinkage control systems.
- Good mechanical bond strengths
- Excellent frost resistance Lower installation time, easy mixing, and placing with excellent flow characteristics in tropical and hot climatic conditions.
- Low permeability providing protection from chloride attack and carbonation
- Applicable in layers up to 30 mm thickness
- Non corrosive, non toxic.
- Less Curing is required
- Suitable for wet spray application.
- Cost effective.

TECHNICAL DATA SHEET:

Colour	: Grey
Composition	: Portland cement, Sand, Fiber and other additives.
Mixing Ration	: 7-8 Liter per 40 Kg bags
Grain size	: 0-2mm
Fresh mortar Density	: 2.10 ± 0.10 Kg/Liter unit
Coat Thickness	: 5-40mm
Wet Mix Life	: 40-60 minutes at 30 degree C
Compressive strength	: 28 Days 62 N/mm ² (MPa)
Flexural Strength	: More than 8 N/mm ²
Tensile Strength	: More than 4 N/mm ²
Adhesive Bond	: More than 2.00 N/mm ²

APPLICATION AREA:

Large volume repairs to the deteriorated concrete structures like beams, columns, piers, walls, all types of RCC structures like cooling towers, chimneys, marine structures, damaged concrete panels etc.



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**CONTECH
CHEMICALS**

Chemists to the Building Industry

APPLICATION INSTRUCTION:

Surface Preparation:

The substrate should be clean, sound and free from Dust, Grease and loose particles etc. Smooth concrete surface should be made rough. Rake out the defective portions of concrete, exposing the reinforcement. Remove loose scale and rust from the reinforcement bars with a wire brush or emery paper. Apply Rustrip rust convertor on reinforcement bars. All the edges of all repairs should be cut vertically to a minimum depth of 10mm. Pre wet the substrate with clean water prior to start the application of **Conpolycem**.

Mixing And Application:

Add about 7-8 Litres of clean water per 40 Kg Bags of **Conpolycem**. (Add powder to the premeasured water) Mix it properly by mechanically with slow speed hand drill mixer (< 500 rpm) or spiral paddle until a good homogeneous mix is obtained. Allow mixture to stand for 2-3 minutes and mix it once again just before use. Please note that excess water will reduce the ultimate strength and extend the drying time of the product.

Plaster the surface with a trowel on the prepared surface to a desired thickness. The prepared mortar should be consumed in one hour. Finish it with the steel trowel or wooden float to ensure optimum bonding of plaster to the substrate. For thickness greater than 30mm **Conpolycem** must be applied in several layers.

PACKING

Conpolycem is available in 40 Kg HDPE laminated bag.

CURING:

Cure the surface for 2-3 times for 3-4 Days when the surface becomes dry. You can use our **Concure** curing agents.

COVERAGE:

40 Kg bag of **Conpolycem** will cover 13-14 Sq.ft in 20 mm thickness. The Coverage depends upon the substrate.

SHELF LIFE:

Conpolycem can be safely stored up to 12 months if kept on dry place above the ground level and covered wall.

STORAGE:

Conpolycem should be stored in dry conditions out of direct sunlight.

PRECAUTIONS

Do not add any water to the material which has begun to set. The repaired structural member does not come into contacts with water or rain for a minimum of 24 hours.

HEALTH AND SAFETY:

It contains Portland cement, silica sand. Freshly mix cement is highly alkaline and may cause skin irritation avoid creating and inhaling dust. Provide ventilation and respiratory protection. Wear skin and eye protection. Dust mask recommended..In case of contact with eyes / skin immediately flush for at least 15 minutes with fresh clean water.