



## UCOPATCH

CR-155

### A High Strength Cementitious, Free flow, Repair concrete

#### Product

UCOPATCH is a pre-packed, High-strength, cementitious, non-shrink flowing micro concrete

#### Composition

UCOPATCH is a blend of selected Portland cement, specially well-graded micro fine aggregates expansion agent and a range of fluidities.

#### Description

UCOPATCH is a specially prepared, Prepacked, flowing micro concrete which requires addition of water only at site to produce free flow high strength shrinkage- compensating concrete. Which has micro fine-aggregates and ability to penetrate in joint to the recesses of concrete membrane and behind the reinforcement of the membrane under repair for larger repairs the mixed product may be modified by the addition of 12 mm down aggregates at site.

#### Properties

UCOPATCH having 3 beneficial properties

1. Free Flow  
UCOPATCH when mixed with recommended W/P ratio, a cohesive fluid, mix is obtained which can be easily poured in congested reinforced concrete, under repair or where pouring is difficult.
2. High Strength  
UCOPATCH exhibits rapid strength development ultimate strength is more than 560 kg/cm<sup>2</sup>
3. Expandability  
Positive expansion during setting leads to superior bonding to surrounding materials.

#### Technical Data

Form ..... Powder  
Colour ..... Grey  
W/P ratio..... 0.18  
Pourable Life..... 20-25 mins at 270c  
Initial Set..... 4-6 hours at 270c  
Final Set..... 6-8 hours at 270c  
Wet densing..... 2200 kg/m<sup>3</sup>  
Compressive Strength... 200 kg/cm<sup>2</sup> at 1 day  
5690 kg/cm<sup>2</sup> at 28 days  
Free Expansion..... 0.7% by Volume

#### Advantages

- High early strength
- Non - Shrink
- Good flow properties
- Excellent adhesion
- Excellent Mechanical properties
- Cohesive mix
- Impermeable
- Chloride free
- Prepacked and factory controlled
- High-tensile and flexural strength
- Reduced co-efficient of creep

#### Purpose

UCOPATCH is ideally suited as a repair concrete for Structures, Highway Works, Beams, and Columns etc.

### Where to Use

- All structure under repair
- It may be used in any application requiring an Economical, High-strength, Free flowing repair concrete.

### Method of Use

#### 1. Preparation

The substrate should be sound, clean and free from contamination, weak portion of concrete should be cut back and roughened carefully pre-wetted. Formwork must be sound to eliminate leakage.

#### 2. Application

UCOPATCH should be mixed with correct amount of clean water preferably by mechanical means to get desired consistency and pour in the forms. The powder should never be poured in to still water.

Care should be taken to see that the gaps in the shutter are effectively sealed with masking tape or cotton to ensure that the material doesn't run out of shutter joints

#### 3. Curing

All standard curing practices should be observed sacks, matting, plastic sheets or a curing compound may be used for curing purpose.

### Yield

A 25 KG of UCOPATCH when mixed with 4.5 litre of water, will yield approximately 12 litre of repair concrete.

### Packing

25, 50 KG bags

### Storage

- UCOPATCH has a shelf life of 12 months from the date of manufacturing, if stored as per manufacturer's instructions & in manufacturer's original unopened packing.
- Keep away from direct sunlight and store in dry & shade.
- Protect from freezing and moisture.

### Handling Precaution

- UCOPATCH is an industrial chemical; required handling precautions should be followed.
- UCOPATCH is non-flammable and doesn't contain any flammable ingredient.
- UCOPATCH is non-hazardous, however inhalation of its dust particles should be avoided. Use of facemask is recommended.
- Prolonged contact with skin should be avoided. Use rubber gloves and boots, when working overhead, goggles should be worn.
- Contact with eye should be avoided. If in contact with eye, wash with water and take medical advice immediately.

### Important Note:

All products should be used in accordance with manufacturer's instructions. Every effort is made to ensure that the information is reliable, however we do not accept any responsibility for any work carried out with our material(s) as we have no control over the method(s) used for application, site conditions, weather conditions, etc.

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**INNOVATIVE**  
**MARKETING**

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### Marketed by:



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