

CAT. No. CONREP-04-2010

# ISOPATCH-M

## Acrylic - Modified Fairing Coat Mortar

**ISOPATCH-M** is a one component, acrylic-modified cementitious mortar specially formulated as a pore sealer and thin finished coat/ render for concrete and masonry. It requires only the addition of water at the site to produce a durable, water resistant, smooth fairing coat mortar. The incorporation of acrylic powders ensures excellent adhesion, flexibility, low water permeability and crack-resistant properties.

### USES

- As a pore sealer to cover concrete surface defects such as blowholes, mild honey combings, sand runs, grout loss, bulging (due to shutter movement).
- As a thin render 0.5-3mm, thick on horizontal and vertical concrete surfaces.
- As a thin repair mortar for leveling joint edges and sides and to form finish joints and covings.

### ADVANTAGES

- Contains acrylic powder
- Excellent adhesion.
- Flexible-low tendency to crack even in thin layers.
- Low water vapor permeability.
- Carbonation resistant.
- Smooth, even finish.

### TYPICAL PROPERTIES

- |                                       |                                      |
|---------------------------------------|--------------------------------------|
| • Compressive Strength @ 28 days      | 30 N/ sq.mm                          |
| • Flexural Strength @ 28 days         | 5 N/ sq.mm                           |
| • Tensile strength @ 28 days          | 3 N/ sq.mm                           |
| • Bond strength to concrete           | 2.5 N/ sq.mm                         |
| • Water absorption (ISAT)             | 0.01 ml/ sq.m/ sec. after 60 minutes |
| • Water vapor diffusion resistance    | 125                                  |
| • Carbon dioxide diffusion resistance | 410                                  |
| • Recommended thickness               | 1 – 3 mm per layer                   |
| • Pot life                            | 30/60 minutes (35/25° C)             |

### DIRECTIONS FOR USE

#### SURFACE PREPARATION

Substrate must be sound, clean and free from dirt, laitance, curing compounds, sealers, etc. Concrete must be prewetted with water to saturated – surface-dry condition to prevent rapid drying/ cracking of mortar.

#### MIXING

Mixing water is adjustable and depends on end – use. One bag (25 kg) will generally require 5-5.25 liters of water. First, put the required amount of water in a suitable clean container, then add powder. Mix mechanically with a slow speed electric drill fitted with a paddle (300 RPM) for at least 3 minutes. Small quantities can be mixed volumetrically using 3 parts powder and 1 part water.

## APPLICATION

**ISOPATCH-M** can be applied by putty knife or trowel to the prewetted substrate. Allow mortar to harden slightly then final finish with a plastic trowel or rub-down with a sponge float or heavy duty cloth. When working at elevated temperature, windy weather and sun-exposed areas the mortar should be kept moist and protected against premature drying. Normal curing methods should be adopted. Where curing compounds are desired, consult ACI.

## PACKING/ COVERAGE

**ISOPATCH-M** is packed in 25 kg. bag and will yield approximately 17 liters of mortar and will cover 5.6 -17 square meters at 3 mm and 1 mm thick respectively.

## SHELF LIFE

Twelve (12) months when stored in dry, covered condition below 35<sup>0</sup> Celsius in original, unopened packing.

## HEALTH/ SAFETY

Prevent inhalation of dust. The use of dust mask is highly recommended. Refer to MSDS for more information.

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