

# Technical Data Sheet

## Rdymix Rdybond Flex

Acrylic polymer designed for Repair & waterproofing

### Description

Rdymix Rdybond Flex is formulated acrylic co-polymer emulsions. Multiple application- used as a bonding agent for new to old substrates, cement mortar modifier, because it provides strong bonds to old & new concrete. Improves tensile & flexural strength of concrete and increases the durability of the structure. When mixed with OPC or PPC forms a matrix & imparts excellent waterproofing.

### Typical Application

- **Concrete repair** – spalled concrete, floor, columns, beams, chajja, slab & parapet etc.
- **Bond coat** – Old to new concrete, masonry, fixing or re-fixing slip bricks, tiles, marbles & bedding.
- **Priming** – Acts as a passivator for rusted steel and increases bonding of concrete.
- **Additive** – Additives for renders & mortars.
- **Coating** – Increases flexibility of cementitious coating.

### Features

**Chloride content** – Chloride free.

**User friendly** – Single component easy to use, simply brushed onto concrete as a primer.

**Bonding** – Excellent bond to concrete, masonry, stonework, gypsum & plaster.

**Strength** – Improves tensile, flexural and compressive strength as compared to control concrete hence increases the durability of concrete structures.

**Dust generation** – Excellent as a dust proof sealer.

**Waterproofing** – Improves waterproofing properties when mixed with cement.

**Flexibility** – Improves flexural strength of cementitious composition.

### Packaging

## Method of Application

### Surface Preparation

Clean the surface and remove any contaminated material, loose plaster, oil, old paint, grease, corrosion deposits or algae were breaking is not required, roughen the surface and remove any laitance by grit blasting. Expose fully corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to bright condition particularly, the hidden portions of the exposed steel bars

## Application

### Bonding Slurry Coat

- Mix Rdy mix Rdybond Flex with cement where extra adhesion to substrate is required.
- Recommended mix for Rdy mix Rdybond Flex is mix with cement in the ratio 1:1 by volume.

### Render and Mortars

Recommended mix ratio for patching repair mortar or render.

- Portland Cement : 50 kg.
- Washed sand : 150 kg.
- Rdy mix Rdybond Flex : 7.5 kgs. Sufficient water for required consistency.

### Reinforcing steel priming

Apply one coat of Rdy mix Rdybond Flex cement mix slurry (1:1 by volume) to all exposed steel reinforcement. Allow to dry for 4 – 6 Hours and apply second coat. Apply Rdy mix Rdybond Flex using brush or rollers on the substrate to avoid any excess material further repair or topping application should be carried out while primer is still tacky.

## Curing

Ensure curing of repaired area using Rdymix Rdybond Flex to prevent rapid loss of water. In severe drying conditions additional curing methods may also be necessary. Protect uncured mortar from frost and rain.

## Technical Information

| Sr.no | Parameters                                               | Specification      | Results                       |
|-------|----------------------------------------------------------|--------------------|-------------------------------|
| 1     | Appearance                                               | Internal method    | Milky white liquid            |
| 2     | Chloride content                                         |                    | Nil                           |
| 3     | PH at 30 ° C                                             | ASTM E 70          | 7.0 – 8.0                     |
| 4     | Compressive strength of mortar using Rdymix Rdybond Flex | BS-6319 Part2-1983 | Dry 30 – 40 N/mm <sup>2</sup> |
| 5     | Adhesion strength, concrete dry condition,               | BS-6319 Part2-1984 | 5 – 20 N/mm <sup>2</sup>      |
| 6     | Curing efficiency %                                      | BS 7542:1992       | >55 %                         |

## Theoretical Coverage

As coating: Approximately 5–7 m<sup>2</sup>/kg

## Shelf Life

Best before 18 months from the date manufacture when in sealed pack and stored under proper condition. Store in a cool & dry place in unopened condition away from direct sunlight.

## Health & Safety

Rdymix Rdybond Flex is non-flammable. Wear suitable clothings, gloves, eye protection and respiratory protective equipment during application. In case of contact with skin, rinse with ample of clean water and then cleanse with soap water. In case of contact with eyes, rinse immediately with clean water and seek medical advice.

## PRODUCT STEWARDSHIP:

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## Disclaimer:

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