

# MONOBOND LATEX



## *Styrene butadiene rubber based bonding agent cum mortar modifier*

### DESCRIPTION

**MONOBOND LATEX** is a one component styrene butadiene rubber latex bonding agent.

**MONOBOND LATEX** is designed to improve the physical properties of cement mixes and slurries.

### APPLICATION

**MONOBOND LATEX** is ideally designed for use in the following applications:

- » Bonding of new to old concrete when used as a slurry coat.
- » To produce polymer modified screeds and floor toppings.
- » To produce a mechanical key prior to rendering of various plaster mixes on concrete, brick and block surfaces.
- » To produce a repair mortar for patching of honey-combed concrete, internally and externally.
- » To produce waterproof renders.

### ADVANTAGES

- Simple to use** - Single component, gauged as required.
- High** - Provides excellent bond to concrete, adhesion plaster, masonry, stone work, etc.
- Improves** - Gives weather resistant mortar with improved durability impermeability to chlorides and other harmful agents.
- Reduces** - Provides waterproof screeds, plasters and Permeability slurries.
- Increases** - Improved tensile and flexural properties strength allow thin applications.
- Versatile** - Compatible with all common hydraulic cements.
- Cost effective** - Monobond Latex is a economical one.

### STANDARDS

**MONOBOND LATEX** complies with:

- » ASTM C1059-99, Type 1 and 2, when tested in accordance with test method ASTM C1042.
- » ASTM C932, for bond strength.

### TECHNICAL PROPERTIES

|                              |              |
|------------------------------|--------------|
| <b>Active solid content:</b> | 48 - 50 %    |
| <b>Specific gravity</b>      | :1.03 ±0.02  |
| <b>Colour:</b>               | Milkey White |
| <b>pH:</b>                   | 7 - 10       |

#### \* ASTM C1042-99

| Mechanical properties                          | Control      | Monobond Latex |
|------------------------------------------------|--------------|----------------|
| <b>Compressive strength (N/mm<sup>2</sup>)</b> |              |                |
| 3 days                                         | 11.5         | 12.5           |
| 7 days                                         | 13.0         | 14.5           |
| 28 days                                        | 22.0         | 24.0           |
| <b>Tensile strength</b>                        |              |                |
| <b>(N/mm<sup>2</sup>) @ 28 days</b>            | 2.5          | 3.5            |
| <b>Flexural strength</b>                       |              |                |
| <b>(N/mm<sup>2</sup>) @ 28 days</b>            | 5.0          | 6.5            |
| <b>Shrinkage during cure:</b>                  | 0.01 - 0.02% |                |
| <b>Resistance to water:</b>                    | Excellent    |                |

Results are for slurry mix with (1:1:4) mixing ratio,

**MONOBOND LATEX** : Clean water : OPC Cement by volume.

### METHOD OF USE

#### SUBSTRATE PREPARATION

The substrate should be sound, clean and free from contamination. Surface laitance should be removed by acid etching. Exposed steel reinforcements should be grit blasted or wired brushed to a bright finish to insure it is clean of all surface contaminants.

For patch repair, cut back the edges of the repair areas to a minimum of 10 mm depth to avoid thin repair thicknesses. Presoak substrates with water prior to commencing the repair.

## MIXING

In general, MONOBOND LATEX should be added and mixed with the clean water prior to dry materials for better dispersion.

### 1) As a bonding agent slurry:

The recommended mix to produce slurry consistency can be achieved by mixing 1 MONOBOND LATEX : 1 Clean water : 4 OPC cement by volume.

2) As a bonding and waterproofing additive for site mixed floor screeds, renders, concrete repair and floor patching: The following table shows the mix designs proposed for the reinstatements of old floors, general purpose patch repair mortar and new floor screeding.

|                                                            | Thin Section<br>6 - 15 mm | Thick section<br>12 - 40 mm |
|------------------------------------------------------------|---------------------------|-----------------------------|
| <b>Cement</b>                                              | 50 kg                     | 50 kg                       |
| <b>Clean sand</b>                                          | 125 kg                    | 75 kg                       |
| <b>3 - 6 mm aggregate -<br/>(preferably granite chips)</b> |                           | 100 kg                      |
| <b>MONOBOND LATEX</b>                                      | 4 - 7 ltr                 | 4 - 7 ltr                   |
| <b>Water</b>                                               | 17 - 19 ltr               | 17 - 19 ltr                 |
| <b>Yield approximately</b>                                 | 0.11 m <sup>3</sup>       | 0.12 m <sup>3</sup>         |

## APPLICATION

### 1) As a bonding agent slurry:

Use a stiff brush to apply a thick coat to presoaked surfaces. Application of the subsequent render, mortar or screed should take place while the bond coat is still wet (tacky). DO NOT apply on dry bond coats. (If bond coat dries before subsequent application, roughen the dry coat before applying a further coat of MONOBOND LATEX.)

2) As a bonding and waterproofing additive for site mixed floor screeds, renders, concrete repair and floor

patching: Apply the screed, repair mortar or render mix using wooden float to place and compact while the bond coat is still wet (tacky). Finish with a steel float.

## CURING

Care should be taken for appropriate curing. Use a chemical curing compound or a wet hessian completely covered with a polyethylene sheet for curing.

## CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

## PACKAGING

MONOBOND LATEX is available in 1, 5, 10, 20 and 50 kg containers.

## COVERAGE

2.5 - 3.0 m<sup>2</sup>/kg.

## STORAGE

MONOBOND LATEX has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C in closed packaging.

**If these conditions are exceeded, Starke Technical Department should be contacted for advice.**

## CAUTIONS

### Health and Safety

MONOBOND LATEX is nontoxic. Avoid skin and eye contact. Gloves and eye protection should be worn. The use of barrier cream is recommended on exposed areas of the skin.

In case of accidental contact with eyes, immediately

flush with plenty of water for at least 10 minutes and seek medical advice.

**For further information refer to the Material Safety Data Sheet.**

## **FIRE**

**MONOBOND LATEX** is nonflammable.

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