

# MasterEmaco<sup>®</sup> P 158

Ready to use SBR based bonding and polymer modifying agent for concrete and mortars

## DESCRIPTION

**MasterEmaco P 158** is an aqueous emulsion of Styrene-Butadiene copolymer latex, specially formulated for use in cementitious mixtures to improve wear resistance, durability, waterproofing and bonding properties.

**MasterEmaco P 158** is also compatible with Sulphate-resisting or high alumina cement and gypsum plaster.

## RECOMMENDED USES

**MasterEmaco P 158** is the ideal SBR-latex recommended for use:

- With cement as a bonding slurry
- In weather resistant exterior or interior renderings
- In repair of honeycombed and spalled concrete, beams and precast elements
- In tile or mosaic bedding compounds for bedding tiles or re-fixing slip bricks

## FEATURES AND BENEFITS

- **Weather proof and increased durability** - Water resistant and Good resistance to salts, mineral oils and many other chemicals
- **Improves adhesion of mortars** -Excellent adhesion to concrete, steel and brick when used as primer
- **High abrasion resistance** – reduce wear on floor screeds
- **Plasticizing effect** - reduced shrinkage and bleeding and increased flexibility
- **Non-toxic.** - Can be used in contact with potable water
- **Lowers water/cement ratio** -Promotes high early strength in mortars and increased tensile strength

## PROPERTIES

|                          |   |
|--------------------------|---|
| Supply Form              | : Liquid                                |
| Colour                   | : Milky white                           |
| Specific Gravity         | : 1.01 kg/L                             |
| pH value                 | : approx. 9 – 10.5                      |
| Storage Temperature      | : Sensitive to Frost<br>(Do not Freeze) |
| Application Temperature: | Not below 5°C                           |
| Toxicity                 | : non-toxic                             |

## APPLICATION

### Substrate Preparation

Cement laitance, oil, grease, mould release oil or curing compounds must be removed from concrete surfaces by using grit blasting or other means.

Steel surfaces should be degreased with a suitable solvent and/or treated by grit blasting or wire brushing where necessary.

Steel reinforcing bars must also be clean from grease, oil or rust and ideally treated by grit blasting. Corroded reinforcing bars should be protected using **MasterEmaco P 5000** (refer separate data sheet). When repairing spalled or deteriorated concrete, ensure that the concrete has been cut back to sound material. Before applying **MasterEmaco P 158**, be sure to pre-wet the concrete substrate thoroughly to saturate the pores completely with water. During application of **MasterEmaco P 158**, the temperature of the substrate should not be below 5°C. To avoid too high a surface temperature, it is advisable to shade application areas.

### Mixing

Stir well before use. Preferably, mixing should be done in an efficient pan type mixer or by means of a low speed drill with appropriate paddle. Hand mixing is not recommended.

### Application Method

**Bonding slurry (priming)** - Apply a slurry onto the still damp substrate, consisting of one part **MasterEmaco P 158** and 2 parts by volume of cement, mixed to a lump-free creamy consistency. A stiff brush should be used to work the bonding slurry well into the damp surface. This slurry should not be applied in a thickness exceeding, approximately 2mm. The mortar must be placed wet-on-wet. If the slurry does dry, a further slurry coat must be applied.

**Renderings (to vertical surfaces)** - After brushing the bonding slurry onto the prepared surface, apply immediately **MasterEmaco P 158** modified mortar, in average thicknesses of 10 mm, as thicker layers tend to sag. However, several layers can be applied in quick succession. If thicker layers are applied, suitable formwork has to be used. To provide a good mechanical bond, scratch the freshly applied coat of rendering when the next coat is to be applied the following day.

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## Screed and toppings (to horizontal surfaces) -

Always place screed, topping or patching mortar onto the still wet bonding slurry. Use low water-cement ratio for thick layers of mortar. Mix **MasterEmaco P 158** with sand/cement in ratio of 1:3. The thinner the repair patch is, the higher the dosage rate of **MasterEmaco P 158**. Apply the **MasterEmaco P 158** modified mortar onto the still tacky bonding slurry.

**Tile or mosaic bedding compound** - Dampen the substrate as well as the tiles. Apply a bonding slurry to the damp substrate and to the back of the tile. Before the slurry starts to dry, plaster the tile with mortar in the required thickness and firmly press to the floor or wall to ensure full contact. Strike off surplus mortar and do not disturb until set. For thin bed applications, press the tiles straight onto the substrate using only the bonding slurry. Strut tile surfaces until set.

Materials for **MasterEmaco P 158** modified mixtures:

- Sand should be washed, well graded and free from excessive fines.
- Although **MasterEmaco P 158** is compatible with high alumina cement, hardening will be delayed.
- Always use fresh cement.
- Expansion joints in the substrate must be carried through the **MasterEmaco P 158** modified mixture.
- **MasterEmaco P 158** modified mixtures should be applied to damp, but never wet, surfaces. Where running water is present, this must first be sealed and plugged.
- **MasterEmaco P 158** may float to the surface and impair the adhesion of subsequently applied materials.

## ESTIMATING DATA

Depending on type of application (refer to "Application Method").

## PACKAGING

**MasterEmaco P 158** is available in 25L pails and 200L drums.

## SHELF LIFE

**MasterEmaco P 158** has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the Master Builders Solutions Material Safety Data Sheet (MSDS) from our office or our website.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability, or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

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