



MASTER CHEMICALS TECHNOLOGY

MC- S B R

Water Resistant Additive and Bonding Agent for Cement System

Description :

MC- S.B.R is styrene- butadiene copolymer latex, specially formulated for the use with cementitious mixtures .

Uses :

Floor screeds and toppings, abrasion resistant and non dusting floors.
Interior renderings to concrete, brickwork, cork and other thermal insulation materials
Waterproofing and tanking, swimming pools, lift pits, basements
Concrete repair, honey combs, spells concrete, repairing floors, worn steps and surfaces
beams and pre-case elements .

Advantages:

MC-S.B.R is employed in mortar and concrete to improve :
The water proofing
Wear resistant
Durability
Bonding properties

Technical Data :

Appearance	: White emulsion
Solid Content	: 40 %
Specific gravity at 25 °C	: 1.02 g / cm ³
Dilution	: with water
Toxicity	: non toxic
Consumption rate	: 2 kg / 50 kg of cement
Shelf Life	: 12 months
Packaging	: 20 - 200 kg drums.

Mortar Properties:

MC- S.B.R mixed with cement and sand in the proportion of 3 parts clean sand to 1 part cement and approx. 2 kg of **MC-S.B.R** per 50 kg of cement, gives typical properties as given below :

Compressive strength	: 30-32 N/mm ²
Flexural strength	: 10 - 13 N/mm ²
Tensile strength	: 5 - 6 N/mm ²
Chemical resistance	: Resist alkalis, mild acids, sulphates chlorides, sugar etc.

Application:

Surface preparation:

MC-S.B.R should be applied onto damp substrates, in case of dry substrate, it should be wetted with water .

Method of Use:

1) Bonding Slurry (priming):

Apply onto the still damp substrate a slurry consisting of 1 part water: 1 part of **MC-S.B.R** and approx. 2 parts of cement, mixed to a lump-free creamy consistency.

A stiff brush should be used to work well the bonding slurry into the damp surface.

This slurry (*do not allow to dry the slurry*) should not be applied in a thickness exceeding approx. 2 mm. when applying the succeeding layers. The mortar must be placed wet- on-wet.

2) Screed and Topping :

Place any screed, topping or patching mortar onto the still wet bonding slurry. Use low water-cement ratio for thick. layer mortar. Depending on use and exposure of the floating mortar, pre-mix the gauging water with **MC-S.B.R** in ratio of 1 part of water.

3) Repair Mortar:

Patch the **MC-S.B.R** modified mortar onto the still tacky bonding slurry. Pre-mix

MC-S.B.R with water in ratio of 1:1 to 1:2 before adding to sand/cement.

Thinner the repair patch is higher the dosage of **MC-S.B.R** (ratio 1:1) .

For more details contact **Master Chemicals Technology** technical department

Or visit our website [www. mc.com.eg](http://www.mc.com.eg)

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