

ECMABOND 510

Multi-purpose Mortar Modifier and Bonding Agent

Description

ECMABOND 510 is a milky-white, Styrene Butadiene Co-polymer latex liquid emulsion with high dispersive properties specially designed to improve waterproofing properties, enhance bonding and strength characteristics of cementitious compositions such as new to old concrete/plasters, repair mortars, floor toppings. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance. It is resistant to hydrolysis and can therefore be used for external applications.

Areas of Application

ECMABOND 510 can be mixed with cement slurry, mortar, concrete or grout in recommended dosages for following applications

- Concrete repair: For damaged, worn or spalled concrete, repairing concrete floors, beams and pre-cast slabs, etc.
- Mortar Modifier: For abrasion resistant & non dusting floor toppings, patch repairs and leveling screeds
- Waterproof Plasters and Plaster repair: For making water proof plaster which is better than normal plaster or for repair of damaged plasters
- Bond Coat: For improved bonding of new concrete to old concrete, plaster, stone/brick masonry.
- Rendering & Repair of Structural elements, precast segments, silos, basement structures, concrete roads, etc.
- Waterproofing & Damp-proofing: For basements side walls and rafts, lift pits, inspection pits, sunken/overhead water tank, sunken portions of bathrooms and toilets, balconies, etc.

Advantages

- Provides excellent bond strength to concrete and mortars
- Improves flexural and tensile strength of concrete and mortars to control cracking
- Excellent mortar modifier with improved flexibility, no bleeding, lower water cement ratio and high resistance to water penetration, increased abrasion resistance.
 - Enhances impermeability to chlorides and other harmful chemicals.
- Compatible with all kind of cements

Technical Properties

Composition	Styrene Butadiene Co-polymer Latex
Form	Milky-white liquid
Specific Gravity@ 30°C	1.03 ± 0.02
Solid Contents	43 ± 2%
pH	7-9

Indicative properties of Modified Mortar

Compressive Strength N/mm ²	3 days	7 days	28 days
Control Mix: Cement - 50 Kg, Sand-150 Kg, Water -20 ltr	12.5	15.0	26.0
Mix with ECMABOND 510: Cement - 50 Kg, Sand-150 Kg, Water -17 ltr, ECMABOND 510- 5 Ltr	14.0	16.5	27.5

Application:

Surface Preparation: All substrates shall be sound and free from dust, excess mortar, oil or other loose particles. Macro cracks or honeycombs shall be repaired using suitable cement mortar.

Mixing & Applying: Mix well different ingredients as suggested below in desired consistency as per required application. Water proportion can be adjusted slightly to achieve the required consistency. In general water content should be kept to the minimum necessary.

Application as	Suggested Mixing Ratio	Consistency	Coverage
Bonding Coat	E:C :: 1:5	Slurry	4-5 Sqm/ Kg/ Coat
Waterproofing Coat	E:C :: 1:2	Slurry	3-4 Sqm/ Kg/ Coat
Mortar Modifier	E:C:S:W :: 1:5:15:1	Mortar	6-10 Kg/ 50 Kg Cement
Floor Screeds/ Toppings	E:C:S:A:W :: 1:5:7.5:7.5:1	Mortar	10 Kg/ 50 Kg Cement
* E - ECMABOND 510, C - Cement, S - Dry Sand, A - Coarse Aggregates, W - Water			

Mixed materials should be applied wet on wet with suitable brush or trowel i.e., the bonding coat must not be allowed to dry. In order to prevent rapid drying, mortars/ screeds should be properly cured with ECMACURE WB, curing compound. All tools and equipment's should be washed with water immediately after use.

Packaging

20 Kg Bucket or 200 Kg Drums

Storage & Shelf Life

ECMABOND 510 should be stored in Cool and Dry shade. Also protect it from direct sunlight. Please avoid stacking of containers and handle carefully during transport. Shelf Life is 12 Months when stored as above in original unopened sealed condition.

Safety Precautions

Wear all PPE's at the of Application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoid direct contact with Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

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