Domissima Domoresin SP

BUILT BY EXPERTS

Low VOC

CE EN 934-2

Bonding emulsion for the improvement of all properties of mortars and concrete

DOMORESIN SP is a high quality aqueous emulsion of styrene-butadiene copolymer latex (SBR), specially formulated for the use with cement mixtures. It is employed in mortar and concrete to improve the waterproof ability, wear resistance, durability, flexibility and bonding properties.

Field of application

DOMORESIN SP is suitable for application in:

- Floor screeds. Renders abrasion resistant floors.
- Exterior cement mortars resistant to weather conditions.
- Swimming pools, water tanks, shafts, water towers and basements waterproofing.
- Putties with improved chemical resistance.
- As a priming layer between old and new concrete.
- For strong leveling mortars with increased mechanical properties even in low thicknesses.
- Cement-based repairing mortars, suitable for multiple repairs of concrete surfaces.
- Tile adhesive mortars.

Advantages

- Water resistant.
- Excellent adhesion on concrete and bricks.
- Thermal expansion and modulus properties similar to concrete.
- Provides flexibility to single-component cement based waterproofing mortars.
- High abrasion resistance.
- Reduces bleeding.
- Resistance to aging.
- Highly increased tensile strength.
- Improved corrosion protection.
- Adheres well to wood, expanded polystyrene and many other building materials.
- Plasticizing effect and reduced shrinkage.
- Lower water-cement ratio.

Method of use

Substrate condition:

The application surface must be clean, sound and free of dust and loose particles.

Cement laitance, oil, grease, mould release oil or curing compound must be removed from concrete surfaces by using wire brush or sand blasting.

While repairing deteriorated concrete, ensure that concrete has been cut back to sound material. Metal surfaces should be degreased with a suitable solvent or treated by grit blasting. All absorbing surfaces must be thoroughly dampened to saturate pores, without standing water.

Mixing:

Mixing should be done preferably in an efficient mixer. Hand batching is not recommended, but permissible only when a small quantity is mixed. First feed the mixer with the dry blend and add the diluted DOMORESIN SP mixing for two minutes. Pay extra attention not to trap any air into the mortar when filling the mixer.

Application:

Bonding slurry (priming)

DOMORESIN SP is suitable for making adhesive primers before placing cement floor bases or wall mortars on cement substrates.

Mixing ratios:

Liquid mixture DOMORESIN SP:WATER 1:1 w/w

Dry mixture CEMENT:AGGREGATES 0-2 mm 1:1 w/w

Liquid to dry mixture 1:1 w/w

Flooring mortars and filling nests

DOMORESIN SP may be applied in combination with DOMOREPAIR products for smoothing floors and filling nests.

Mixing ratios:

Liquid mixture DOMORESIN SP:WATER 1: 2 w/w

Liquid to DOMOREPAIR 1:6 w/w

~ 1.5 kg DOMORESIN SP in 25 kg DOMOREPAIR

Cement coatings (to vertical surfaces)

DOMORESIN SP use in indoor and outdoor wall cement mortars results in excellent waterproofing, strong adhesion and greater flexibility.

Mixing ratios:

Dry mixture CEMENT:AGGREGATES 0-1.2 mm 1:8 w/w

Liquid to dry mixture 1:4 w/w

~ 2-4 kg DOMORESIN SP in 50 kg CEMENT

To improve adhesion to the substrate it is recommended a first layer in a ratio:

Dry mixture CEMENT:AGGREGATES 0-2 mm 1:2-4 w/w

Liquid to dry mixture 1:3-4 w/w

~ 2-4 kg DOMORESIN SP in 50 kg CEMENT

For aggregates the optimum gradation is 60% 0-1.2 mm and 40% 1.2-2 mm.

All above mixing ratios refer to dry aggregates. In case of fresh or wet aggregates, the amount of water mixed with DOMORESIN SP should be decreased.

Flooring mortar

Mixing ratios:

Liquid mixture DOMORESIN SP:WATER 1:2-7 w/w

Dry mixture CEMENT:AGGREGATES 0-2 mm 1:2-4 w/w

Liquid to dry mixture 1:6 w/w

~ 4-10 kg DOMORESIN SP in 50 kg CEMENT

Prime with DOMORESIN SP and apply the mortar while the product is still wet.

Coatings primer (DOMOREFLECT range)

In case of particularly loose substrates is recommended to prime the surface with DOMORESIN SP diluted with water.

Mixing ratio:

DOMORESIN SP:WATER 1:3 w/w

The coating should be applied before the primer has dried completely.

Additional information:

- The sand must be washed, well-graded (free from excessive fines).
- Use always fresh Portland cement.
- The expansion joints in the substrate must be carried on through the modified mortar.
- Where running water is present, it must first be sealed and plugged.
- Do not work at temperatures below +5ºC. The applied mortar must be protected from direct exposure to strong sunlight, rain and frost. Do not over-trowel and avoid re-trowelling of set mortar, because of fear of possible cracks.

Storage

Can be stored for at least 12 months from production date in the original pail, in a cool environment protected from frost and direct sunlight.

Packaging

Cans of 1 kg, 5 kg and 20 kg.

Certificates

The product is certified according to EN 934-2+A1 (Concrete Additives), in the category Water Resisting Admixture.

Volatile Organic Compounds

EU REGULATION 2004/42: According to Directive 2004/42/EU (Annex II, Table A), the maximum allowed content of VOC (Product Category h / Type WB) is 30 g/L (limits of 2010) for the final product. The final DOMORESIN SP contains max <30 g/L.

Specifications

Form	Liquid
Color	White
Specific weight	1.02 ± 0.03 kg/L (23ºC)
Solids content	48%
Application temperature	From +5ºC to +35ºC
Ration of sample measurements of DOMORESIN SP and reference sample	DOMORESIN SP:Water:Cement 42.5N:Quartz sand 1:0.5:2:4 Water:Cement 42.5N:Quartz sand 0.5:2:4
Capillary water absorption (EN 480-5)	<Reference Sample
Compressive strength (EN 12390-3)	>Reference Sample
Air content in fresh concrete (EN 12350-7)	>Reference Sample
Characterization EN 934-2	Water Resisting Admixture

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