

Ozone SBR

Styrene butadiene copolymer for concrete

DESCRIPTION

Ozone SBR is a styrene-butadiene polymer latex with high bonding characteristics. It is stable under wet alkaline condition forming a reinforcing polymer matrix within cementitious mixes.

USES

Ozone SBR is used for bonding new to old concrete. It is designed to be used as an additive to cement and sand mortar to produce thick bed mortar for rendering or screeding. It can be used as a thin-bed adhesive for tile bedding and grout filling.

ADVANTAGES

- Dramatically improves the adhesion bonding of cementitious mixes.
- Effective plasticizer giving increased workability and cohesion. Allows reduction in water content to improve durability and strength without loss of workability.
- Excellent waterproofing admixture which is alkali stable in cementitious mixtures.
- Reduces shrinkage and cracking in repair and screed- ing mixes. Good freeze thaw resistance.

TECHNICAL DATA

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|------------------|---------------------------|
| Appearance | : White Liquid |
| Specific Gravity | : 1.02±0.01 at 25°C |
| pH Value | : 8.5 - 9.5 |
| Particle Size | : 0.20 microns |
| Bond Strength | : > 1.0 N/mm ² |

(ASTM C190-1985)

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

METHOD OF USE

Surface Preparation

The surface must be clean and free from dust, debris and oil. Remove all laitance, oil, grease, mould oil or curing compound from concrete surface before application. For large areas, mechanical scrubbing is recommended.

1) Bonding Coat

Provision of bonding coat to concrete, masonry or brick surfaces to accept cementitious renders, screeds or repair mixes. Ozone SBR can be applied on surface by brush as bonding coat.

Use a stiff brush to apply a thick coat to the wetted surface. Application of concrete renders and mortars should take place while the bond coat is still wet.

DO NOT apply over dry bond coats. Hand scabble the dry coat before applying a further bond coat. Bond coats should remain "tacky" for approximately 20 minutes depending on ambient temperature

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| Cement | 2 parts by weight |
| Ozone SBR | 1 part by weight |
| Water (Optional) | 1 part by weight |
| Coverage (2 mm thick) | 0.2-0.6 kg / m ² |

2) Adhesive Mortars

Ozone SBR can be applied on the substrate surface before conventional or prepacked tile adhesive is being applied. Ozone SBR can also be use for cement and sand adhesive mortars. Mix Ozone SBR with water, followed by sand and cement, until a cohesive mixture is obtained.

Dampen the receiving substrate and back of the brick or tile. Apply a bond coat to substrate. Then apply a 5 - 6 mm render over the wet bond coat using a notched float. Press the brick or tile into the render. The same mix should be used later to grout up.

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| Cement | 50 kg |
| Sand (Medium) | 75 kg |
| Ozone SBR | 8 litres |
| Water | 3 - 4 litres |
| Wet Density | 2100kg / m ³ |
| Coverage (per mm thick) | 2.1 kg / m ² |

3) Floor Patching : Concrete Repair

Used for reinstatement of old floors, floor patching and general purpose concrete repair and renders. Dampen the receiving substrate. Apply a bond coat while the substrate is still wet. Place the screed, repair or render mix using a wooden float to apply and compact. Repair mixes are best placed at a semi-dry consistency. Finish the mix with steel float. Good curing is essential to prevent drying and cracking.

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|-------------------|------------------------|------------------------|
| Thickness | 5 - 15 mm | 10 - 50 mm |
| Cement | 50 kg | 50 kg |
| Coarse Clean Sand | 125 kg | 100 - 200 kg |
| Granite 3 mm | - | 0 - 100 kg |
| Ozone SBR | 6 litres | 6 litres |
| Water | 5 - 10 litres | 5 - 10 litres |
| Density | 2200 kg/m ³ | 2250 kg/m ³ |
| Coverage | 33 kg/m ² | 34 kg/m ² |

4) Waterproof Renders

Used for sealing and waterproofing concrete water tanks, basements and exterior foundation tanking.

After surface preparation and wetting, apply a brush coat of bonding mix horizontally. When almost touch dry, apply a second coat vertically. Each coat should be 1mm thick. Lightly scratch the surface of the second coat when nearly touch dry and leave for 24 hours to cure.

Apply a further bond coat while it is still wet, trowel on the render coat at a thickness up to 10mm. Additional render coats can be applied as required at 1 - 2 hours intervals. Close up the final coat with a steel finishing float.

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| Cement | 50 kg |
| Coarse, Clean Sand | 125 kg |
| Ozone SBR | 10 litres |
| Water | 5 - 10 litres |

5) Floor Screeds

Levelling of uneven floors, large area patching, abrasion resistant screeds to heavy duty areas. Spreading the mixed polymer modified screed mortar using a rake or screeding bar. Level to the desired thickness by manually compacting with a wooden float, using a screed lath to control the thickness. Wood float the finish, or seal the surface by trowelling with a steel float. Cure with polythene sheeting or apply 2 coats of curing compound

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|---------------------------|-----------------------|
| Cement | 50 kg |
| Coarse, Clean Sand | 100 kg |
| Granite 3 mm | 100 kg |
| Ozone SBR | 7 - 9 litres |
| Water | 5 - 10 litres |
| Density | 2200kg/m ³ |
| Coverage (12mm thickness) | 26 kg/m ² |



CURING

Proper curing is essential on all cementitious mortars. One of two coats of curing compound will provide protection for all newly laid concrete. Other curing methods such as water misting, polythene sheeting and similar techniques are also suitable.

SHELF LIFE

1 year in original, unopened packaging

HEALTH & SAFETY

Ozone SBR is non-toxic. However it is recommended that care is taken when handling it. Skin and eye contact should be avoided. Gloves and eye protection must be worn at all times. In case of eye contact, wash thoroughly with clean water and seek immediate medical attention.

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