MAGMA Alliance

Waterproofing System

Magma Alliance SBR

SBR Liquid Polymer for site - prepared waterproofing slurry coat on concrete & mineral surfaces

Features & Benefits

- Can be applied in uniform thickness to horizontal and vertical surfaces.
- Develops excellent bond with most mineral surfaces
- Improves adhesive and tensile properties of cementitious slurries
- Reduces efflorescence in concrete
- Compatible with damp surfaces
- Non toxic

Primary Application

Magma Alliance SBR in conjunction with cement provides a seamless waterproof coating to concrete and masonry surfaces. It can be used as a waterproofing or protective coating.
The typical areas of application are:

- Waterproofing of toilets, terraces, water retaining structures
- Waterproofing of general cementitious rendered surfaces

Packing

Magma Alliance SBR is supplied as a package of 5L, & 20L container.

Coverage

The theoretical coverage of Magma Alliance SBR slurry coat at recommended proportion of mixing prepared using one bag of cement (50 Kg) is about 40 m^2 when applied on a smooth and prepared surfaces at 1 mm thickness. However, the practical thickness may vary if the surfaces are rough, undulated with local depressions and protrusions. For a given surface the actual consumption may be determined by doing a mockup application on a sample area.

For critical applications a coating thickness of at least 1.5 mm is recommended which can be built up in two coats .

The theoretical coverage of 1 bag cement Magma Alliance SBR slurry mix at 1.5 mm thick will be 26.7 m^2

Storage

Magma Alliance SBR has a minimum shelf life of 12 months if kept in the original, unopened container. If stored in high temperature and/or high humidity conditions the shelf life may be reduced

Application Instructions

Surface Preparation

Prior to application of Magma Alliance SBR, surface must be prepared as mentioned below to avoid failure :

The surface shall be cleaned to remove all dust, foreign matters, loose particles or any deposits of contamination which could affect the bond between the surface and the coating. This can be done by scarifying, grinding, water / wet sand blasting, power brushing or by any other approved method. New flat surfaces like sub-base concrete shall be made reasonably smooth so as not to impede the application of Magma Alliance SBR coating and to avoid sharp projections. All concrete surfaces shall be thoroughly prewetted for at least one hour prior to the application of Magma Alliance SBR coating by pouring water on flat surface or by vigorously spraying water on vertical/inclined surfaces. Ensure that surface is only damp during application of Magma Alliance SBR coating. In no case there should be standing water or a excessive wet surface.

Depressions are filled and levelled using Magma Alliance SBR modified mortar prepared as described as follows:

Mix ingredients at a proportion of 1 kg cement:1.5 kg silica sand and 0.5 kg Magma Alliance SBR throughly using enough water to get a mix of trowellable consistency to use as a filling mortar.

B. Installation of Fillets

Create fillets at the inter section of vertical & horizontal surface using a cement sand mortar

Mixing

Magma Alliance SBR Polymer is mixed with neat cement in the ratio of 50 kg cement: 20kg of Magma Alliance SBR and 5 kg of water . The mix has to be stirred thoroughly preferably using a paddle mixer until no air bubbles remain in the mix. Any lump found in the mix should be removed.

Application

The mix has to be applied by brush on rendered sound prepared surface. Two or more coats are recommended. First coat should be allowed to dry for 5-6 hours before the second coat is applied. The brush strokes shall be at right angles to the previous coat. The surface should be made wet before application in case of porous substrates.

Curing

During the first 12 hours of curing, the coating must be protected from abrasion, rain and other adverse conditions. No traffic shall be allowed on a Magma Alliance SBR treated surface within 48 hours after application. After application of final coat of Magma Alliance SBR slurry, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing. In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After maximum period of 6 hours of the final application moist curing shall be done for the next 24 hours by way of spraying water on Magma Alliance SBR slurry coating. During this period at no point of time should the Magma Alliance SBR coating be left completely dry or submerged in water. Following moist curing, the Magma Alliance SBR slurry coat shall be allowed to air dry for 3 days before submersion in water if required for use.

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