

MAGISEAL HP®

Waterproof "osmotic" coating water pressure resistant for internal and external structures

DESCRIPTION

MAGISEAL HP is produced in the form of a ready-for-use, cementitious mortar with very fine granular grading of aggregates. When the product penetrates by osmotic transfer into the capillaries of the structures to be impermeabilized, it is able to bring about a chemical reaction with hydration of the cement lime with which it is manufactured. This reaction leads to generation of insoluble saline crystal deposits, which partially occluded the capillaries that allow water thrust to build up and thus the pressure is gradually reduced and eliminated. The chemical reactions that take place when the product comes into contact with the supporting surface also facilitate the anchoring of the layer of osmotic cement and stimulate chemical binding through a cohesive process.

USES

Suitable for application on damp walls and bulkheads, dykes, pen troughs, pipelines and water channels, underground structures and surfaces in reinforced concrete in general, where structures have to be protected against weakening of the "hydration lime", which is very important for the cohesion of castings and their safety.

This specifically formulated product can be used in reinforced concrete whenever structures created with this material have to bear a very high degree of counter-thrust ($< = 1$ MPa) after the final stage of setting.

ADVANTAGES

- Easy to use.
- Fills and seals porosity in reinforced concrete, while allowing the surfaces to transpire.
- The degrees of mechanical resistance reached by the coating after seasoning are very high.
- Very high durability of the cementitious coating.

TECHNICAL DATA

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| - Sp. gr. of product as supplied: | 1.20 g/cm ³ |
| - Sp. gr. of mixed mortar: | 1.50 g/cm ³ |
| - Permeability to vapour (DIN 56215) | > = 250-300 |
| - Resistance to water thrust (Darcy) no permeation found at: | 1 MPa |
| - Resistance to tear in sample submitted to permeation test: | > = 2.5 MPa |
| - Compression modulus: | > = 30000 MPa |

INSTRUCTIONS FOR USE

The surface to be covered must be thoroughly cleaned and any dust, loose material, grease or oil etc must be removed before applying.

Any spacing bars and structural iron must be cut to a depth of 1.5 - 2.0 cm and sealed with MAGIPLUG. At the connection point between walls and flooring, create a wall-floor joint, using MAGIPLUG with catheti measuring 2 x 2 cm minimum.

Restore any missing parts with ARMOCRETE mortar and thoroughly hydrate the cementitious support. Use MAGIPLUG in the case of water leaks and seepage.

Mix 25 kg of MAGISEAL HP powder with 6 - 7 litres of water. Mix the paste, using a drill fitted with a blade-type stirrer attachment.

Leave the resulting slurry to rest for a few minutes and then apply the product with a masonry brush (of at least 15 cm) with natural tampico fibres. Take up the material with the brush and apply an abundant coat. About 6 hours after the first coat, humidify and apply a second coat.

MAGISEAL HP can be applied to surfaces also with long brushes (25 cm) or with special plaster sprayers and then passed over with a plastic trowel. When covering brickwork structures with MAGISEAL HP, a rough cementitious coating containing MAGICOL must be previously applied.

YIELD

The quantity of product consumed depends on the texture of the surfaces to be covered.

Normally, 2.0 - 3.0 kg/m² will be sufficient

COLOUR

Cement grey powder.

PACKING

25 Kg bags.

CAUTION

Do not apply this product at temperatures below 5°C, in windy weather or when the ambient temperature is too high. MAGISEAL HP can be plastered, using common mortars and with application of a rough coating over treated surfaces in the hardening phase.

Do not apply MAGISEAL HP in direct contact with gypsum, lime, brickwork or stone.

STORAGE

Shelf-life of 12 months when stored in the original sealed packaging in dry place.