

(TECHNICAL BULLETIN)

ASTEC DEHYDRACRETE CEMENT RENDERS

WATERPROOFING FOR CEMENT AND MASONRY

Aquaphobe MP-12



PRODUCT TYPE

Silicon Protection for Mineral Facades.

DESCRIPTION

Aquaphobe MP-12 is a solvent -free, aqueous Silane/ Siloxane emulsion concentrate. It is designed to replace general purpose organic solvent-based Silane/Siloxane impregnants. Aquaphobe MP-12 is non-corrosive, non-flammable and is not classed as a dangerous good.

USE

Impregnation of masonry

When diluted with water, Aquaphobe MP-12 is recommended for the water repellent treatment of almost all kinds of masonry substrates such as fresh concrete, cement mortar and renders, fired bricks, terra cotta and stone.

Aquaphobe MP-12 and its diluted solutions are water-based and not classed as dangerous goods. The storage and transport of Aquaphobe MP-12 is therefore not regulated. The product is an environmentally friendly alternative to traditional hydrocarbon solvent containing systems.

OUTSTANDING FEATURES

- Excellent alkali stability, can be used to treat fresh concrete and mortar.
- Excellent depth of penetration.
- Very good surface beading effect.
- Reduces water absorption by over 90%.
- No hazardous solvents emitted during use.
- Non flammable and non corrosive.
- Cost effective.



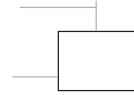
Astec Paints is a 100% Australian owned company committed to the research and development of technologically advanced coatings that provide premium durability against our harsh Australian conditions. Our coatings are manufactured with high regard for worker safety and environmental care and will provide you with absolute confidence in long term performance.



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PHYSICAL PROPERTIES

Appearance	Milky white liquid with slight alcoholic odour.
Solids content	30% by weight.
Specific gravity	0.97.
pH value	7-9.
Solubility in water	Miscible.
Flash point	>100°.

PREPARATION OF MASONRY WATER REPELLENTS

Dilution

Working solutions of Aquaphobe MP-12 are prepared by diluting with demineralised water at a (dilution ratio 1:1). Such diluted solutions are chemically and physically stable for at least 6 months.

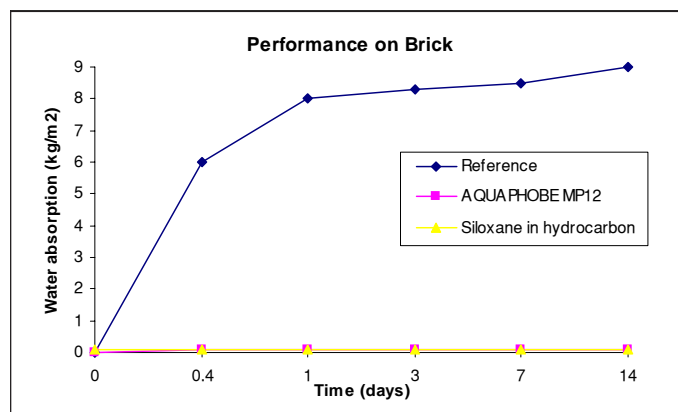
Application

Diluted solutions of Aquaphobe MP-12 should be flood applied to masonry surfaces at low pressure until the surface is saturated. Application can be with a garden pressure sprayer or airless equipment set to wet spray conditions. Two applications wet-on-wet are recommended. Full cure is achieved in 7 days. Always shake the container before use.

Performance

A comparison of the performance of Aquaphobe MP-12 (diluted to 5% solids) versus a commercial 5% Silane/Siloxane hydrocarbon can be seen in figures 1 and 2. The products were applied to brick samples (Figure 1.) and four week old cement mortar discs (cement/sand/water ratio of 1/3/0.5, Figure 2.). The water absorption of the treated substrates was measured by placing the samples on a water- saturated sponge and measuring the increase in mass over time.

The results show that Aquaphobe MP-12 is similar in performance to the organic solvent-based material.



Performance

PREPARATION OF IMPREGNANT PRIMERS

Two acrylic primer systems were brush applied to cement sheet samples and allowed to dry. The samples were then subjected to water absorption tests as described above. The results are presented in Figure 3.

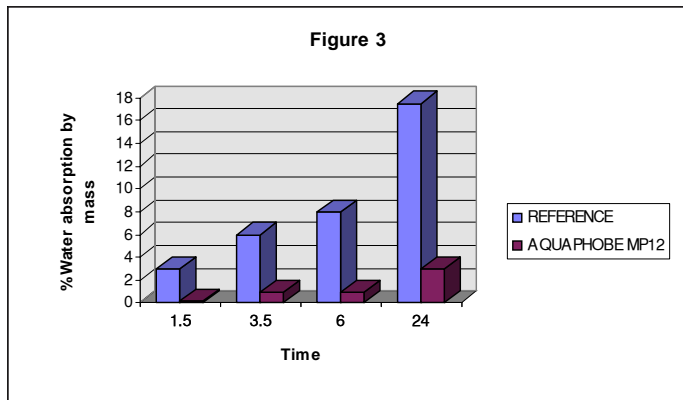
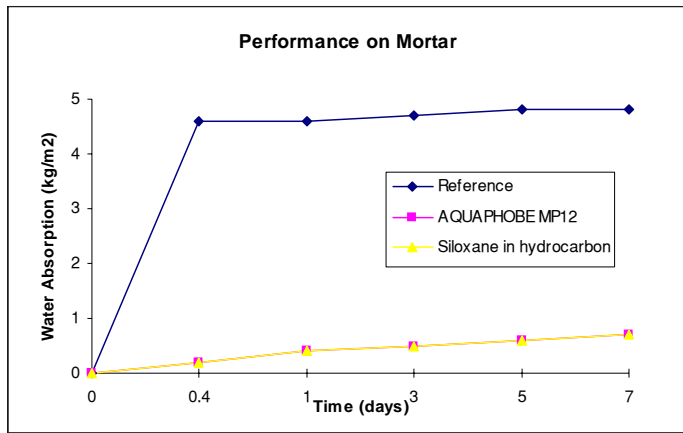
The two formulations were:

Reference:

Tile Sealer
(As supplied by Astec Paints)

Reference with Aquaphobe MP-12

Tile Sealer 20 Ltrs
Aquaphobe MP-12 1 ltr



RESULTS

The results show that the addition of 5% Aquaphobe MP-12 in the primer formulation results in an 85% reduction in water absorption at 24 hours.

STORAGE

Aquaphobe MP-12 should be stored in closed containers in a cool dry place. The product should be protected from freezing and stored at temperatures below 40°C. This product has a shelf life of 6 months and should be used before the use-by date printed on the can.

SAFETY INFORMATION

Aquaphobe MP-12 is non-flammable and non-corrosive. As with all chemical products, good industrial hygiene procedures should be used when using this product. Skin and eye contact should be avoided by using suitable protective measures such as chemically resistant gloves and goggles. Wash all spills with plenty of water. Refer to the material safety data sheet if accidentally swallowed or splashed into eyes. Small amount of ethanol may be evolved on prolonged storage.

PACKING SIZE

Aquaphobe MP-12 is available in 20 ltr drums.



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