Mineral Plaster Technology

TECHNICAL DATA SHEET

AMBERSEAL PENETRATING SEALER

Updated 19/7/2021

Product Name: AMBERSEAL PENETRATING SEALER / AMBERSEAL EMULSION

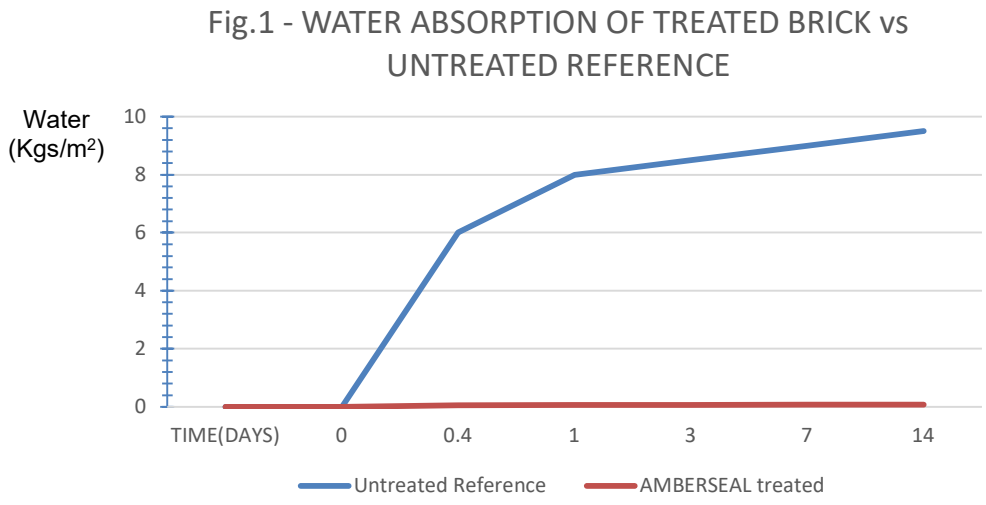
Description: AMBERSEAL is a solvent-free aqueous silane/siloxane emulsion concentrate with an enhanced surface beading effect. It is designed to replace general purpose solvent-based silane/siloxane masonry water repellents. The silane/siloxane reacts with masonry substrates providing permanent water repellancy to the masonry.

Recommended Uses: **As impregnation of masonry:**

When diluted with water, AMBERSEAL is recommended for the water repellent treatment of almost all masonry substrates including concrete masonry, cement mortar or renders, clay bricks, terracotta tiles and natural stones such as sandstone, limestone and slate etc.

In long term water absorption results for clay brick treated with 5% (active silicones) AMBERSEAL, the water absorption of the treated brick compared to that of the reference was significantly reduced.

Figure 1. Water Absorption of Treated Brick

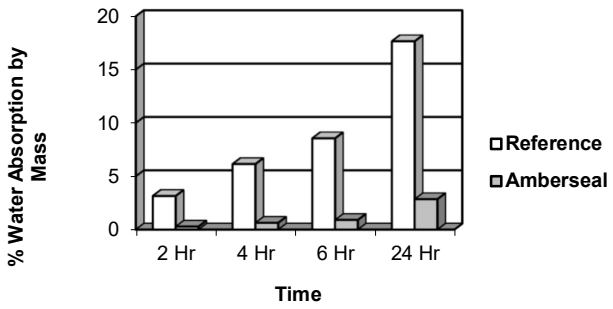


As an admixture in acrylic primers:

AMBERSEAL can be added to acrylic primers to produce products that are film-forming impregnants. Such products possess both film-forming and penetrating properties. The result is a coating combination with very low water absorption. Acrylic primers containing AMBERSEAL form superior substrates for subsequent over coating. The low water absorption of the primer coat reduces water ingress through imperfections or damage in the topcoat; the result is a more durable coating system.

Water absorption test results show that acrylic primer with addition of 6% AMBERSEAL provides 85% reduction in water absorption compared to that of standard cement render.

Figure 2. Water absorption of cement render coated with acrylic primer containing Amberseal



Use Instructions:

As Masonry Water Repellent

A working solution of AMBERSEAL can be prepared by diluting the AMBERSEAL Concentrate in demineralised water to an active content of 5% (or 1:9 dilution). Concentration may change depending on application. A test should be conducted before application. Stir AMBERSEAL Concentrate before dilution. Such a diluted solution should be stable for at least 6 months if stored between 5 and 25°C and out of direct sunlight.

The above solution can be applied to masonry surfaces by brush, roller or sprayer. A garden sprayer or low-pressure airless sprayer is preferred. One or two flood coats may be required depending on application. If two coats are required, the second coat must be applied immediately after the first coat is absorbed by the surface. This is called wet-on-wet application. This is to avoid possible poor spreading of the second coat caused by the good beading effect after the first coat dries. Wet-on-dry (or partially dry) application may result in an uneven surface finish, or a clear polyurethane-like film. Dab away any surface pooling after penetration of the product to prevent unsightly filming. Always stir the solution before use.

Typical Data:

Appearance:	Milky white liquid with slight odour
Solids content:	50% by weight
Specific gravity:	0.98
pH value:	8-9
Solubility in water:	Miscible
Flash point:	>100*C

Important Note: As products and the conditions of use vary, it is always recommended that a pilot trial should be carried out prior to using AMBERSEAL to determine the suitability of this product for the purpose.

Handling & Storage: AMBERSEAL is classified as a non-hazardous material. However, as with all chemical products, good industrial hygiene procedures should be followed when using this product. The product should be stored in closed containers in a cool dry place away from any ignition sources. The concentrated product has a shelf life of 12 months in a sealed container stored at a temperature below 25*C.

See the Safety Data Sheet for more specific safety and handling information.

Packaging: AMBERSEAL is available in 1 and 20 litre plastic containers of concentrate and in 1 litre containers of ready-to-use 1:9 concentration.

Disclaimer:

The information given in this data sheet is based on many years of experience and is correct to the best of our knowledge. As the storage, handling and application of this material is beyond our control. We can only be responsible for the quality of our product at the time of dispatch. We reserve the right to alter certain product parameters within the spectrum of properties in order to keep abreast of technical advances. It is the responsibility of the end user to determine the suitability of this material for any particular application.