

Mr. Expert MWR 1000

Exterior Masonry Water Repellent

DATA SHEET

Mr. Expert MWR 1000 is solvent diluted fast curing reactive silicone, based on silanes and siloxanes used for imparting a colourless water repellent surface finish to mineral construction materials without significantly reducing water vapour permeability.

Mr. Expert MWR 1000 forms an excellent weather coat for all types of cement and stone and bricks surfaces.

Mr. Expert MWR 1000 provides water repellence within two hours of application. The water repellence further improves over 8 hours after application.

As a surface treatment in applications that utilize its ability to impart water repellent surface and reduce water absorption.

Standards:

Mr. Expert MWR 1000 meets requirements of ASTM C 1384 - 12 A

Application Areas:

Mineral plasters
Mineral based artificial and natural stones
Aerated concrete
Cement fibre boards
Brick works
Mineral paints
For use on bricks, sandstone, limestone, Cement and ceramics

Why use Mr. Expert MWR 1000

Rain water penetrating the exposed masonry surface dissolves the soluble salts and eventually deposits them on the surface causing stains. This condition, called efflorescence, spoils the beauty of the facade.

The main problems with exposed concrete surface are:

Patchy appearance due to different degree of compaction; i.e. different degree of absorbency.

Visibility of hairline cracks due to concentration of dirt deposition; moss growth.

Water entering the masonry when allowed to freeze, increases in volume due to the formation of ice often resulting in cracks and spalling.

Corrosion of reinforced steel rods.

Capillary action of small pores absorb water deep in to the walls. In the case of glazed tiled surface water can get into the masonry through the mortar joints causing damp interior walls. During the laying of floor tiles, water soluble salts migrate into the tiles from the mortar used.

Treatment with Mr. Expert MWR 1000 prevents efflorescence of salts absorbed and makes cleaning of the tiled floor easier. Low fired clay products such as roof tiles, bricks, unglazed floor tiles absorb water and the soluble salts are transported to the surface, disfiguring the product.

A continuous cycle of dissolving and crystallization of the water soluble salts over a period of time leads to the disintegration of the clay product. In low fired clay products containing lime that has not been sufficiently pulverized, the CaO/MgO particles which are not transformed into silicates during firing react with water and undergo considerable expansion causing pitting.

Damage caused to the wet substrate/ clay product due to growth of moss, lichen and algae is also a common problem spoiling the beauty of the facade.

All the above phenomena are observed only if the masonry surface remains wet. They will be eliminated if one can prevent or at least reduce water absorption. Water resistance is an important factor in concrete and masonry construction for safety, health and comfort of building occupants.

Efflorescence is the white colour that is seen on many brick and masonry buildings. This is the natural salts that are carried to the surface of the brick by water vapour inside of it. Once the water gets to the surface, the water evaporates and leaves the salts behind on the brick surface. By stopping the water from getting into and penetrating the brick, the efflorescence will be stopped

Breathable

Penetrating Mr. Expert MWR 1000 masonry and brick sealers also allow interior water vapour to leave the brick or masonry substrate. This is an important difference between a surface sealer and many other penetrates. A surface sealer will keep interior water vapour that needs to escape inside the brick. In a cold climate, water vapour trapped behind a surface sealer will freeze and cause the brick to spall or flake.

Non Visible

Mr. Expert MWR 1000 water repellents do not stay on the substrate surface. They actually penetrate into the substrate of brick or masonry. To the viewer they are not visible. The brick and masonry will have the same appearance as if it were unsealed. No gloss, shine, sheen or film is left after curing. When a viewer touches the substrate, it will feel the same as if it were not treated.

Features

Impart water repellence to a wide variety of substances.

Coverage on normal Concrete: 125-150 square foot per L Single coat

Benefits

Reduces water absorption into the substrate

Low VOC. Ready and easy to use.

Method of Use:

The substrate should be air dry and absorbent. The solution should be liberally applied one or two coats, wet on wet, to the surface of material. The solution can be applied by brushing or spraying. Stir well before use.

Packing : 20 L, 50 L, 200 L

Shelf Life : 12 months from the date of manufacturing

Physical and chemical properties

color	Translucent
Form	Liquid
Solubility in water	Non soluble
Flammability	Flammable
Sp. Gravity at 25 deg. C	.70 to .80
Odour	Typical solvent odour

MWR 1000 When applied on surface



Disclaimer

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