BRICK & PAVER SEALER

GENERAL DESCRIPTION

Emecole Metro Brick & Paver Sealer is a water-thinable, solvent-less emulsion, based on a mixture of silane and siloxane. Diluted solutions of Emecole Metro Brick & Paver Sealer serve as a high quality, general-purpose water repellent for impregnating and priming mineral surfaces. It also can be used for the mass treatment of non-load bearing concrete products.

Owing to its aqueous consistency and storage stability when diluted, the Brick & Paver Sealer is ideal for implant impregnation of building materials made of clay, aerated concrete, sand-lime brick, fibrous cement, mineral fibers and lightweight aggregate.

Emecole Metro Brick & Paver Sealer may also serve as a water-repellent primer for emulsion paints and plasters, silicone resin emulsion paints and silicone resin plasters.

Diluted Emecole Metro Brick & Paver Sealer is an excellent water repellent for many absorbent mineral substrates, such as bricks, sand-lime brick, natural sandstone and mineral plasters. It is not suitable for less absorbent, dense natural stone, especially limestone, marble and reinforced concrete for bridges and roads.

PROPERTIES

Emecole Metro Brick & Paver Sealer emulsion contains a stabilized mixture of silanes and siloxanes that are susceptible to hydrolysis. Hydrolysis occurs only after application to the substrate, which breaks the emulsion. Alcohol is released and the emulsion is converted into a silicone resin water repellent.

Emecole Metro Brick & Paver Sealer reduces the capillary absorption of the building which it has penetrated, but does not clog pores or capillaries. There is little or no impairment of the building material´s ability to “breathe”.

TECHNICAL DATA

PHYSICAL PROPERTIES

Emecole Metro Brick & paver Sealer		Test Method
Appearance	Milky, white	_____
Active Substance Content	60 wt.	_____
Density	0.95 g/cm³	ASTM D-1622
Viscosity, dynamic (at 25° C / 77° F)	approx. 12 mPa.s	ASTM D-1638
pH-Value	approx. 8	_____

SPECIAL FEATURES

- good depth of penetration
- resistance to alkalis
- rapid development of water repellency
- provides good adhesion for paints
- water based and environmentally friendly
- stable in storage, even when diluted

PRODUCT DATA (cont'd)

PROCESSING

Tap water is suitable for preparing solutions of Emecole Metro Brick & Paver Sealer for use as facade water repellent primer. We recommend an active substance content of 5-10% (dilute the product in the ratio 1:5 to 1:11), the exact figure depending on how absorbent the substrate is.

Apply the ready-to-use solution in the usual way; flooding is the preferred way. Two "wet on wet" coats are needed to ensure complete coverage. Owing to the content of wetting agent in Emecole Metro Brick & Paver Sealer, re-impregnation at a later date does not present any difficulties. If it starts raining, stop treatment and cover the freshly impregnated areas.

For the mass impregnation of concrete products an active agent concentration of 10 % per weight is recommended. The dosage of the diluted product can be related to the overall mass or the amount of binding agents of the concrete product. If related to overall mass, a dosage between 0.1 to 1.0 % of the 10 % dilution of Emecole Metro Brick & Paver Sealer is recommended. If related to the amount of binding agent, a dosage between 1.0 to 4.0 % of the 10 % dilution of Emecole Metro Brick & Paver Sealer is recommended. In order to keep the water-cement-ratio on a constant level, reduce the amount of mixing water by the amount of water added with the diluted emulsion. Even though an evaluation exhibited no negative influence of Emecole Metro Brick & Paver Sealer on the mechanical properties of selected concrete recipes, an independent evaluation of the mechanical properties is recommended.

STORAGE

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.The more dilute they are, the more they tend to cream. However, this phase separation may be reversed by brief stirring or agitation. This will restore it to a homogeneous emulsion, without loss of efficacy. Emecole Metro Brick & Paver Sealer contains minor amounts of a preservative that protects the emulsion against microbial contamination and fungal attack.

The quality of the water used may make it necessary to add a biocide after dilution; in principle, nearly any water-based preservative may be used.

WARRANTY

Recommendations concerning the performance or use of this product are based upon independent test reports believed to be reliable. If the product is proven to be defective, at the option of the Manufacturer, it will be either replaced or the purchase price refunded. The Manufacturer will not be liable in excess of the purchase price. The user will be responsible for deciding if the product is suitable for his application and will assume all risk associated with the use of the product. This warranty is in lieu of any other warranty expressed or implied, including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular use.