

AQUA BLOCK

DESCRIPTION

Aqua Block is a water-dilutable, solvent free emulsion, based on a mixture of silane and siloxane. Dilute solutions of Aqua Block serve as high quality, general-purpose water repellents for hydrophobic impregnating and priming mineral surfaces. Mineral substrates treated with Aqua Block are especially characterized by an excellent beading effect.

PROPERTIES

Aqua Block 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. When solvent is released the emulsion is converted into a silicone resin water repellent.

Aqua Block reduces the capillary absorption of the stone matrix which it penetrates, but does not clog pores or capillaries. There is therefore little or no impairment of the building material's ability to "breathe"

SPECIAL FEATURES

- Good depth of penetration
- Rapid development of water repellency
- Highly durable and effective beading effect
- Tack-free drying
- Provides good adhesion for paints
- Water-based and environmentally compatible
- Stable in storage, even when diluted

APPLICATION

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

Very stable when diluted, Aqua Block is ideal for implant impregnation of building materials made of clay, aerated concrete, sand-lime brick, fibrous cement, mineral fibers and lightweight aggregate.

Aqua Block may also serve as a water-repellent primer for emulsion paints and plasters, silicone resin emulsion and silicone resin plasters.

Aqua Block may be applied with a brush or roller. Apply using a thin coat. A pump-up sprayer may be used for large areas. Application rate: 200 ft per gallon.

PROCESSING

Tap water is suitable for preparing solutions of Aqua Block 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. Generally a dilution of 9:1 is suitable for clean concrete substrates. Apply the ready-to-use solution in the usual way; flooding is the preferred way. One wet coat is needed to ensure maximum penetration with minimum drying. The substrate should appear wet for 20 minutes for best results. Repeat coats over time (annually for three years will last many years. Do not apply when substrate is hot - this will result in evaporation and not allow sufficient time to penetrate. If it starts to rain, stop treatment and cover the impregnated areas. It is important to allow 12 - 24 hours for cure to avoid diluting affect of rain or moisture from irrigation.

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 uses must be checked for quality assurance reasons.

SAFETY

Aqua Block is not harmful to plants or animals once it is applied to dry. Treat any exposed areas of skin or eyes by flushing with water.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		milky, white
Active substance		Varies by dilution
Density		0,95 g/cm ³
Viscosity, dynamic at 25 °C		approx. 12 mPa.s

Information is intended as a guide and should not be used in preparing specifications.