

A-Z Penetrating Sealer WB



Masonry Water Repellent

DESCRIPTION • *A-Z Penetrating Sealer WB* is a water-based silane/siloxane emulsion.

A-Z Penetrating Sealer WB serves as a high-quality general-purpose water repellent for impregnating and priming mineral and highly alkaline substrates.

USES • *A-Z Penetrating Sealer WB* is an excellent water repellent for many absorbent mineral and even highly alkaline substrates, such as bricks, concrete, sand-lime, brick, natural sandstone and mineral plasters. It is not so suitable for less absorbent, dense natural stone, especially marble.

Owing to its aqueous consistency and storage stability, *A-Z Penetrating Sealer WB* is ideal for in-plant impregnation of building materials made of clay, aerated concrete, sand-lime brick, fibrous cement, mineral fibers and lightweight aggregate.

A-Z Penetrating Sealer WB may also serve as a water-repellent primer for emulsion paints and plasters, silicone resin emulsion paints and silicone resin plasters, as well as for concrete coatings.

ADVANTAGES

- ✓ Good depth of penetration.
- ✓ High alkaline resistance.
- ✓ Provides good adhesion for paints.
- ✓ Water-based and environmentally friendly.
- ✓ Fast-developing water repellency.
- ✓ Stable in storage.

A-Z Penetrating Sealer WB 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.

A-Z Penetrating Sealer WB reduces the capillary absorption of the surface which it has penetrated, but does not clog pores or capillaries. There is therefore little or no impairment of the building material's ability to "breathe".

LIMITATIONS • Do not apply if ambient temperature is expected to drop below 7°C in the proceeding 24 hours. Do not apply if rain, dew, or water exposure is expected within 24 hours after application. Avoid application in direct sunlight and during high winds. Do not apply on areas where hydrostatic pressure is possible. *A-Z Penetrating Sealer WB* is not suitable for rendering gypsum water repellent. Not suitable on very dense, non-porous surfaces such as marble and granite.

COVERAGE • Must be applied full strength, never dilute. Coverage rates depend on porosity and

texture of the surface, method of application, and other surface and job conditions. The figures quoted below are intended as a guide only:

Substrate	Coverage [m ² /GI]
Concrete	8-16
Plaster	7-15
Sand-Lime Brick	6-10
Brickwork	2-10
Aerated Concrete	2-8
Cement Fiberboard	13-35
Natural Stone	2-75

TECHNICAL DATA

Test	Result
Water Absorption (BS 1881 Part 122)	
After 30 min	
Untreated Sample	6.1%
Treated Sample	0.13%
After 24 hours	
Untreated Sample	7.6%
Treated Sample	1.43%
VOC (applied on ArtCrete 801), USEPA 24	0 g/L

SURFACE PREPARATION • All surfaces must be clean, free of grease, oil, dirt, wax, and other foreign matter. Cleaning agents may be used provided they are thoroughly rinsed from all surfaces before application and are used in accordance with the manufacturer's recommendations. In some cases, scraping and wire brushing of previously applied coatings, followed by sanding and/or power washing may be necessary. Allow surface to dry for at least 24 hours. Do not use soap or detergent for cleaning; residue may prevent the sealer from penetrating to the surface.

APPLICATION • DO NOT THIN, apply full strength. Avoid application in direct sunlight, or during strong wind. On hot days, apply early in the day when temperatures are lower, and when the concrete surface is in the shade. For best results, apply material when surface temperature will remain between 12°C and 25°C for 8 hours after application. Mask or protect surrounding areas from spills and contact with product or equipment. Rope off working area, close to traffic, and remove surrounding vehicles. Before applying *A-Z Penetrating Sealer WB*, be sure to cover windows and other non-absorbent surfaces properly because the product cures so quickly that it will be extremely difficult, if not impossible, to remove after a few

A-Z Penetrating Sealer WB Masonry Water Repellent

hours. Wipe off any splashes on window panes immediately, using a solvent if necessary.

Flooding, preferably not under pressure, is the best technique for applying *A-Z Penetrating Sealer WB*. Apply several coats, wet on wet, until the substrate is saturated. Generally, at least two applications suffice for all substrates.

Do not leave long breaks between coats. Apply the next when the substrate has absorbed the previous one and is no longer shiny (wet-on-wet working). The substrate must not have damp spots, i. e., it should look dry. The requisite quantity of *A-Z Penetrating Sealer WB* depends on the absorbency of the substrate. The amount of impregnating agent required for a substrate and the effectiveness of the impregnation should be determined on site by testing a small area of the material to be treated.

MAINTENANCE • Treated surfaces should be inspected periodically by pouring water on the surface; lack of water beading indicates sealer deficiency. Reapply sealer as necessary. The frequency of inspection depends on the intensity and type of use, but in any case should not be longer than one year. For commercial flooring applications, inspection every six months is recommended.

CLEANING • Tools and equipment must be cleaned with warm water.

STORAGE & SHELF LIFE • Product should be stored at 25°C in dry conditions away from direct sun light or freezing conditions. Shelf life is approximately 12 months from date of purchase in original unopened container under specified storage conditions.

SAFETY PRECAUTIONS • **KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY** – harmful or fatal if swallowed. **STRONGLY ALKALINE AND CORROSIVE.** Goggles should always be worn when handling the product. Clothing wetted with product must be taken off immediately. **FIRST AID:** Eyes – Do not rub eyes, immediately flush with plenty of fresh water while holding eyelids apart. Seek medical attention immediately due to the corrosive effect of the alkali. Skin – Any splashes on the skin should be washed off with plenty of water.

PACKAGING • 20 liter pails.
