

A-Z Penetrating Sealer SMK



Masonry Water Repellent

DESCRIPTION • *A-Z Penetrating Sealer SMK* is a solventless microemulsion concentrate based on silanes and siloxanes that is diluted with water.

The dilute, aqueous solution serves as a high-quality general-purpose water repellent for impregnating and priming mineral and alkaline substrates.

USES • Diluted with water, *A-Z Penetrating Sealer SMK* is used as a general-purpose water repellent for absorbent, mineral and even alkaline substrates, such as natural stone, brick, concrete and sand-lime brick, as well as for mineral paints and stuccos.

A-Z Penetrating Sealer SMK is also suitable as a primer for dispersion-based paints and plasters, silicone resin paints and plasters, concrete coatings, and as a water repellent for the in-plant treatment of lightweight aggregates and clay building materials, aerated concrete, sand-lime brick, fibrous cement and mineral fibers.

ADVANTAGES

- ✓ Water-free, solvent-free silicone concentrate.
- ✓ Spontaneously miscible with water, i. e. without the need for sophisticated mixing devices.
- ✓ Dilute with regular tap water.
- ✓ Good depth of penetration.
- ✓ High alkaline resistance.
- ✓ Provides good adhesion for paints.
- ✓ Water-based and environmentally friendly.
- ✓ Fast-developing water repellency.

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 SMK* is not suitable for rendering gypsum water repellent. Not suitable on very dense, non-porous surfaces such as marble and granite.

Any portion of *A-Z Penetrating Sealer SMK* which has been diluted with water **must be used on the same day of dilution**. Therefore dilute only as much as will be used in one day.

COVERAGE • 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 /Gl]
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

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 the surface.

DILUTION • Regular tap water is suitable for the dilution of *A-Z Penetrating Sealer SMK*. When adding water to *A-Z Penetrating Sealer SMK*, briefly stir the mixture. Fine-particle opalescent microemulsions will result whose appearance will not change even after their pot life has expired.

In general, good results will be obtained if *A-Z Penetrating Sealer SMK* is used diluted with water in a ratio of 1:9 to 1:14 (i.e. 1 pbw *A-Z Penetrating Sealer SMK* + 9 to 14 pbw water).

APPLICATION • 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 SMK*, 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 hours. Wipe off any splashes on window panes immediately with soap and water, or if necessary use an organic solvent.

Flooding, preferably not under pressure, is the best technique for applying *A-Z Penetrating Sealer SMK*. 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).

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The substrate must not have damp spots, i.e. it should look dry. The requisite quantity of *A-Z Penetrating Sealer SMK* 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.

Do not allow foot traffic for 24 hours after final application. Area may be opened to heavy foot traffic only after a minimum of 72 hours.

MAINTENANCE • Treated surfaces should be inspected periodically by pouring water on the surface; lack of water beading indicates sealer deficiency. Reapply sealer as necessary.

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 of the concentrate is approximately 12 months from date of purchase in original unopened container under specified storage conditions. **Any portion of A-Z Penetrating Sealer SMK which has been diluted with water must be used on the same day of dilution.**

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.
