

# A-Z Penetrating Sealer SB



## Solvent Borne Water Repellent

**DESCRIPTION** • *A-Z Penetrating Sealer SB* is a single component, ready to use, silicone sealer based on silane/siloxane diluted with organic solvents.

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

**USES** • *A-Z Penetrating Sealer SB* is sprayed directly on the surface of porous, absorbent, mineral construction materials for imparting water repellency. These materials include but are not limited to:

- Brickwork
- Mineral-based natural and artificial stone
- Aerated concrete
- Sand-lime brickwork
- Cement fiberboards
- Mineral paints
- All kinds of concrete
- Mineral plasters

*A-Z Penetrating Sealer SB* is also suitable as a primer for exterior paints.

### ADVANTAGES

- ✓ Good depth of penetration.
- ✓ High alkaline resistance.
- ✓ Reduces chloride-induced corrosion of concrete steel reinforcement.
- ✓ Tack-free drying.
- ✓ Effective even on damp substrates.
- ✓ Fast-developing water repellency.
- ✓ Easy to use.
- ✓ Does not discolor or change the appearance of the substrate.
- ✓ UV resistant and non-yellowing.

After application, *A-Z Penetrating Sealer SB* reacts with the atmospheric moisture or pore water in the substrate, thereby generating the active ingredient while liberating alcohol. The active ingredient greatly lowers the water absorbency of the substrate. Since neither pores nor capillaries are clogged, the substrate retains a very high degree of water vapor permeability

**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 SB* 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 <sup>2</sup> /G]
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

### PHYSICAL PROPERTIES

TEST	RESULTS
Color	Colorless clear liquid
Finish	Invisible penetrating film
Density	0.8 kg/liter
Flash Point	38°C
VOC	<200 g/L
Resistance to Chloride Ion penetration NC HRP 244 Standard	92%
Resistance to Water Absorption NC HRP 244 Std.	85%
Reduction in Water Absorption BS 1881 Part 122	> 300%
Water Vapor Transmission ASTM D 1653	100% Breathable
Allowable Substrate Moisture	5% Maximum
Allowable Application/ Substrate Temperature Minimum	5°C
Maximum	30°C

**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.

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**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 SB*, 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, using a solvent if necessary.

Flooding, preferably not under pressure, is the best technique for applying *A-Z Penetrating Sealer SB*. For best results use an airless hand-held pump sprayer. 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 SB* 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.

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

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**CLEANING** • Tools and equipment must be cleaned with an organic solvent.

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**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.

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**SAFETY PRECAUTIONS** • DANGER! FLAMABLE VAPOR AND LIQUID. KEEP AWAY FROM SOURCES OF IGNITION. CAUSES EYE, RESPIRATORY TRACT, OR SKIN IRRITATION. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY – harmful or fatal if swallowed. Use goggles, protective clothing and vinyl gloves when handling. Use a properly fitted organic vapor respirator (NIOSH TC-84A approved) during application. Use in adequate ventilation. Do not breathe mist or vapors. May affect the brain and nervous system, causing dizziness or nausea. Causes nose and throat irritation. FIRST AID: Eyes – Do not rub eyes, immediately flush with plenty of fresh water while holding eyelids apart. Skin – Wash with soap and water. Inhalation – Leave the area if experience difficulty breathing. Ingestion – Immediately give large amounts of water and induce vomiting; seek immediate medical attention.

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**PACKAGING** • 20 L pail and 200 L drum.

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### Creative Concrete Concepts

PO Box 925794, Amman 1110, Jordan; Tel +962-6-487-4078, Fax +962-6-488-9133 • PO Box 91234, City of Industry, CA 91715-1234, USA; Tel +1-909-266-0709, Fax +1-909-266-0711 • PO Box 31017, Sharjah, UAE; Tel +971-6-532-1119, Fax +971-6-532-8833

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