

Fabrishield® 800 Series

- Penetrating Water Repellents
- Alkyl-Silane Technology
- Chemically Bonded
- Chloride Ion Screening
- Water Vapour Permeable

DESCRIPTION AND USE

FABRISHIELD® 800 is a series of uniquely formulated, penetrating sealers for use on concrete and masonry surfaces. Their primary purpose is to make treated surfaces hydrophobic, without causing any aesthetic change. Treated surfaces resist not only water infiltration but also chloride ion penetration, staining from airborne contaminants, as well as other deterioration caused by water ingress (algae growth, freeze-thaw spalling, efflorescence, etc.); yet remain breathable, allowing the passage of water vapour.

FABRISHIELD® 800 series sealers are formulated with an alkyl-trialkoxysilane which reacts with the alkalinity of the surface to be treated, triggering a chemical reaction which results in the sealer becoming an integral part of the base substrate, thus creating a water repellent barrier.

FABRISHIELD® 800 can be formulated to a variety of solids levels, but is most commonly produced at 40% solids. Product designations are as follows:

- FABRISHIELD® 820 - 20%
- FABRISHIELD® 830 - 30%
- FABRISHIELD® 840 - 40%

ADVANTAGES

Because FABRISHIELD® 800 series sealers are made from a specific alkyl silane, the very small molecular structure can deeply penetrate even the densest substrates. The curing process is actually a chemical reaction between the constituent elements in the substrate and the silane monomers. The resultant bond is chemical rather than adhesive, leading to far greater service life.

The solvent carrier (alcohol) is water miscible, very mobile, and capable of penetrating fine pores. Because of these exceptional properties, FABRISHIELD® 800 is unaffected by surface abrasion.

APPLICATION

Test each surface to ensure compatibility, to confirm product selection, to establish typical coverage rate and to confirm degree of water repellency. The surfaces to receive FABRISHIELD® should be clean, free of stains, vegetative growth, and efflorescence, thoroughly sound and in good repair. Any deficiencies should be corrected prior to the application of FABRISHIELD® (this should include caulking). On new construction or where repairs have been undertaken, surfaces should be allowed to cure for a minimum of 28 days.

It should be noted that test panels are imperative. Apply material as supplied. **DO NOT DILUTE OR ALTER MATERIAL AS PACKAGED.**

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Preferred method of application is with low pressure, garden type spray equipment; however brush or roller application is adequate where appropriate. Material can also be applied by airless spray equipment; however it is essential that the pressure be set very low so as to prevent atomization of the sealer upon leaving the tip.

When applying FABRISHIELD® on vertical surfaces, it is suggested that the substrate receive an initial light "mist" coat to break the surface tension. This should then be followed immediately by a uniform flood coat which allows just enough material to carry a 6 inch rundown from the contact point. Application should be made in an overlapping pattern and coverage controlled to approximately that established by the test panels.

When applying FABRISHIELD® to horizontal surfaces, the product should be applied in a single saturation coat which leaves some material remaining on the surface for about five minutes after application. Any puddles remaining after fifteen minutes should be redistributed until thoroughly absorbed.

LIMITATIONS

FABRISHIELD® should only be applied to substrates which are clean, dry, and sound. The surface and ambient temperatures should be a minimum of 4°C (40°F) and expected to remain so for at least five hours following application. Do not allow FABRISHIELD® to reach surfaces which can be damaged by the alcohol carrier or the silane resin.

Protect all surrounding surfaces such as aluminum, glass, and porcelain, or clean of within 45 minutes of application.

FABRISHIELD® 800 contains alcohol solvents and should be handled accordingly. Adequate ventilation must be provided and prolonged inhalation of vapours avoided. Material must be kept away from fire or flame. Goggles are advised to avoid eye irritation. **AVOID CONTACT WITH SKIN.** Consult the product MATERIAL SAFETY DATA SHEET before using.

COVERAGE

Coverages can vary from 80 to 250 square feet per gallon depending on the porosity and surface texture of the substrate. **TEST PANELS ARE THEREFORE IMPERATIVE.** The table below shows typical coverage rates which should be helpful for estimating the amount of material required. However, these rates are approximate: the determining factor for adequate coverage is the amount of rundown as noted above.

| Substrate | Coverage |
|--------------------------|---------------------|
| Smooth Textured Concrete | 200-250 sq.ft./gal. |
| Rough Textured Concrete | 125-150 sq.ft./gal. |
| Extruded Clay Brick | 90-110 sq.ft./gal. |
| Dry-pressed Clay Brick | 60- 80 sq.ft./gal. |

POROUS SUBSTRATES WILL REQUIRE ADDITIONAL MATERIAL

GUARANTEE

FABRIKEM MANUFACTURING LTD. guarantees its products when they are applied in accordance with its printed instructions. Results of inadequate surface preparation, improper mixing, incorrect application, inadequate protection, and other factors beyond the manufacturer's control cannot be held to the manufacturer's responsibility. No responsibility can be accepted beyond the purchase price of the product.

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