

PRODUCT DATA

7^{07 19 03} **Water Repellents**

ENVIROSEAL[®] PBT

High-performance, water-based, patented silane/siloxane blended water-repellent sealer for lightweight block

Description

Enviroseal[®] PBT is a high-performance, water-based, clear, silane/siloxane sealer designed to provide long-term protection for the most challenging split-faced and lightweight block as well as standard CMU.

Yield

Block (lightweight):
25 – 60 ft²/gallon (0.6 – 1.5 m²/L)

Porous concrete:
60 – 150 ft²/gallon (1.5 – 3.7 m²/L)

A test area is recommended to determine actual coverage rates. Coverage rates will vary greatly with the porosity of the substrate.

Packaging

5 gallon (19 L) pails
54 gallon (205 L) drums

Color

Milky white, dries clear

Shelf Life

1 year when stored properly

Storage

Store in unopened containers in a clean, dry area between 35 and 110° F (2 and 43° C).

Features

- Highest water repellency
- Water repellent
- Water based
- Excellent water bead
- Transparent, nonstaining
- Breathable
- Easy to apply

Benefits

- Provides long-lasting protection against moisture intrusion
- Extends life of building
- Environmentally friendly
- Substrate maintains dry appearance during rainfall
- Does not alter surface appearance
- Allows interior moisture to escape without damaging sealer
- Reduces labor costs

Where to Use

LOCATION

- Vertical
- Interior or exterior
- Above grade

SUBSTRATE

- Concrete block
 - Lightweight
 - Integrally colored
 - Split faced
- Porous concrete surfaces

How to Apply

Surface Preparation

1. Surfaces should be clean and dry, and free of alkali, efflorescence, sand, surface dust or dirt, oil, grease, chemical films, and other contaminants. Concrete surfaces should be fully cured.
2. Air, material and surface temperatures should be 40° F (4° C) or higher during application and cure. Surfaces can be slightly damp prior to application. Do not apply sealer when temperatures are expected to fall below 40° F (4° C) within 4 hours of completed application.
3. Repoint any loose or disintegrated mortar and allow a minimum of 72 hours drying time before application. Install caulking and sealant before application, allowing a minimum of 6 – 12 hours curing time (or until set). Contact Technical Service for recommendations.

Technical Data

Composition

Enviroseal® PBT is a water-based proprietary blend of silane and siloxane.

Typical Properties

PROPERTY	VALUE
VOC content , lbs/gal (g/L)	0.98 (118)
Specific gravity , kg/L	1.0
Density , lb/gal	8.38
Penetration , in (mm), average depth depending upon substrate	1/16 – 1/4 (1.5 – 6)
Yellowing	None
Efflorescence	Highly resistant
Drying time for recoat , min (if necessary)	30
Surface appearance after application	Unchanged

Test Data

PROPERTY	RESULTS	TEST METHODS
Flash point , ° F (° C)	> 212 (> 100)	ASTM D 3278
Water repellency , % reduction in water absorption	95	ASTM C 140
Water permeance , % reduction, leakage on block wall	99	ASTM E 514

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

Application

1. Test a small area of the surface (generally a 5 by 5 ft [1.5 by 1.5 m] section) before starting general application of any clear penetrating sealer to ensure desired results and coverage rates. Allow 2 weeks for the product to fully react before evaluating. Refer to Appendix HY-3: Test Area Application.
2. Mix material thoroughly before and during application.
3. Apply by low-pressure, non-atomizing spray.
4. Apply a mist coat of Enviroseal® PBT immediately before application to help break surface tension and assist with maximum penetration.
5. Flood surfaces to saturation by applying from the bottom up, with a controlled 8 – 10" (20 cm) material rundown to ensure maximum penetration into substrate.
6. Extremely porous substrates may require 2 coats. Application of the second coat should proceed with a wet-on-wet application. Refer to Appendix HY-1: Sealing Lightweight Block.

Drying Time

Typical drying time for Enviroseal® PBT is 4 hours at 70° F (21° C) and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time.

Clean Up

Clean equipment and tools with hot soapy water. Overspray can be cleaned immediately with hot soapy water. Dried residue can be cleaned with a mild citric acid or very hot water, then scrubbed with a plastic sponge.

For Best Performance

- Keep material from freezing.
- Do not dilute Enviroseal® PBT.
- Do not apply during inclement weather or when inclement weather is anticipated within 2 hours.
- To prevent damage to nearby shrubbery and landscaping, cover or protect with drop cloth.
- Variations in the texture and porosity of the substrate will affect the coverage and performance of the product.
- Enviroseal® PBT will not inhibit water penetration through unsound or cracked surfaces or surfaces with defective flashing, caulking, or structural waterproofing.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

ENVIROSEAL® PBT

Caution

Enviroseal® PBT contains octamethylcyclotetra-siloxane and methylhydrogen siloxane.

Risks

May cause skin, eye or respiratory irritation. Ingestion may cause irritation.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

Proposition 65

This product does not knowingly contain materials listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

Less than 0.98 lbs/gal or 118 g/L, less water and exempt solvents.

**For medical emergencies only,
call ChemTrec (1-800-424-9300).**

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