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## Technical Data Guide

07 19 23 Water Repellents

# MasterProtect<sup>®</sup> H 185

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

FORMERLY ENVIROSEAL® PBT

## PACKAGING

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

#### COLOR

Milky white; dries clear

### **YIELD**

- Block (lightweight): 25-60 ft<sup>2</sup>/gal (0.6-1.5 m<sup>2</sup>/L)
- Porous concrete: 60-150 ft<sup>2</sup>/gal (1.5-3.7 m<sup>2</sup>/L)

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

### **STORAGE**

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

### SHELF LIFE

1 year when stored properly

## **VOC CONTENT**

Less than 118 g/L less water and exempt solvents.

#### DESCRIPTION

MasterProtect H 185 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.

## PRODUCT HIGHLIGHTS

- Water repellency extends life of building
- lasting protection against moisture intrusion
- VOC Compliant for EPA and most regional jurisdictions
- Excellent water bead so the substrate maintains
  2.Air, material, and surface temperatures should dry appearance during rainfall
- Transparent and non-staining; does not alter surface appearance
- Breathablity allows interior moisture to escape without damaging sealer
- Easy to apply

### **APPLICATIONS**

- Vertical
- Interior or exterior
- Above grade

## **SUBSTRATES**

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

## **HOW TO APPLY SURFACE PREPARATION**

- Treats lightweight block and CMU providing long- 1. Surfaces should be clean, dry, and free of alkali, efflorescence, sand, surface dust or dirt, oil, grease, chemical films, and other contaminants. Concrete surfaces should be fully cured.
  - be 40° F (4° C) or higher during application and curing. Surfaces can be slightly damp prior to application, but for best results and maximum penetration of sealer, a dry surface is recommended. 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.

## 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 performance results, aesthetics and coverage rates. Allow 2 weeks for the product to fully react before evaluating. Refer to Appendix HY-3: Test Area Application.



## Technical Data Composition

MasterProtect H 185 is a water-based proprietary blend of silane and siloxane.

## **Typical Properties**

PROPERTY	VALUE
Specific gravity, kg/L	1.0
Density, lb/gal	8.38
<b>Penetration,</b> in (mm), average depth depending upon substrate	½ <sub>16</sub> – ½ (1.5–6)
Yellowing	None
Efflorescence	Highly resistant
<b>Drying time for recoat,</b> min (if necessary)	30
Surface appearance after application	Unchanged

## Test Data

PROPERTY	RESULTS	TEST METHOD	
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.			

- **2.**Mix material thoroughly before and during application.
- 3. Apply by low-pressure, non-atomizing spray.
- 4.Apply a mist coat of MasterProtect H 185 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 MasterProtect H 185 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 citrus-based cleaner or very hot water, then scrubbed with a soft-bristle brush.

#### FOR BEST PERFORMANCE

- Keep material from freezing.
- Do not dilute MasterProtect H 185.
- 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.
- Protect asphalt-based products such as roofing materials or plastic products from overspray
- MasterProtect H 185 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 SDS are being used; visit master-builders-solutions.basf.us to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

## **HEALTH, SAFETY AND ENVIRONMENTAL**

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfbscst@basf.com or calling 1(800)433-9517. Use only as directed. For medical emergencies only, call ChemTrec® 1(800)424-9300.

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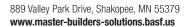
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