

# ENVIROSEAL® 7

Water-based silane/siloxane  
water-repellent sealer

PRODUCT DATA

7 07190

**Water  
Repellents**

## Description

Enviroseal® 7 is a clear, water-based silane/siloxane sealer for protecting a wide variety of vertical surfaces. It provides a cost-effective solution for protecting substrates from water and the elements.

## Yield

Brick:

100 – 175 ft<sup>2</sup>/gal (2.4 – 4.3 m<sup>2</sup>/L)

Concrete:

100 – 175 ft<sup>2</sup>/gal (2.4 – 4.3 m<sup>2</sup>/L)

Stucco:

60 – 100 ft<sup>2</sup>/gal (1.5 – 2.4 m<sup>2</sup>/L)

Stone:

Call Technical Service for recommendations.

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

## Packaging

1 gallon (3.8 L) jugs

5 gallon (19 L) pails

54 gallon (205 L) drums

## Color

Milky white liquid; dries clear

## Shelf Life

18 months when properly stored

## Storage

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

## Features

- Water based
- Breathable
- Transparent, nonstaining
- Easy to apply
- Water repellent
- Cost effective

## Benefits

- Environmentally friendly
- Allows interior moisture to escape
- Does not alter surface appearance
- Reduces labor costs
- Extends the life of buildings
- Provides durable performance at an affordable cost

## Where to Use

### LOCATION

- Vertical
- Interior or exterior
- Above grade

### SUBSTRATE

- Brick
  - Hard burnt
  - Regular to common
- Concrete
  - Architectural
  - Exposed aggregate
  - Glass-fiber reinforced
  - Precast/poured in place
  - Tilt up
- Stone
  - Granite/marble/limestone (unpolished)
  - Sandstone
- Stucco
  - Troweled/smooth
  - Integrally colored

## How to Apply

### Surface Preparation for Vertical Surfaces

1. Clean surfaces 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 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. Complete caulking and sealant work before application of sealer, allowing a minimum of 6 – 12 hours curing time (or until set). Contact Technical Service for recommendations.



## Technical Data

### Composition

Enviroseal® 7 is a water-based blend of silane and siloxane.

### Typical Properties

PROPERTY	VALUE
<b>Solids and active ingredients, % by weight</b>	7
<b>Specific gravity, kg/L</b>	1.0
<b>Density, lb/gal</b>	8.33
<b>Penetration, in (mm), average depth, depending upon substrate</b>	0.04 – 0.06 (1.0 – 1.5)

### Test Data

PROPERTY	RESULTS	TEST METHODS
<b>Flash point, ° F (° C)</b>	> 200 (> 93)	ASTM D 3278
<b>VOC content, lb/gal (g/L)</b>	< 2.09 (< 250))	EPA Method 24
<b>Moisture-vapor transmission rate, at 75° F (24° C)</b>		ASTM D 1653
g/ft <sup>2</sup> /24 hours	49.8	
% of untreated substrate	86	
<b>Water repellency test, % reduction in weight gain, 21 day submersion</b>	75	ASTM C 642
<b>Water weight gain, %, 7 day submersion</b>	2.20	ASTM C 642
<b>Surface appearance after application</b>	Unchanged	Federal Reflectance Test Method 6121

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 penetrating sealer to ensure desired results and coverage rates. Allow 5 – 7 days 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® 7 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. Apply the second coat as soon as initial surface drying of the first coat has become visible.

## Drying Time

Typical drying time for Enviroseal® 7 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® 7.
- Do not apply during inclement weather or when inclement weather is anticipated within 12 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® 7 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 Degussa 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® 7

### Caution

Enviroseal® 7 contains alkoxyisilane.

### Risks

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

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin 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 contains material listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

### VOC Content

Less than 2.09 lbs/gal or 250 g/L, less water and exempt solvents.

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

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**Degussa Building Systems**

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**Customer Service** 800-433-9517

**Technical Service** 800-243-6739

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