



The Chemical Company

PRODUCT DATA

7^{07 19 16} Water Repellents

HYDROZO[®] CLEAR 40 VOC

Clear, solvent-based, VOC-compliant, silane water-repellent sealer

Description

Hydrozo[®] Clear 40 VOC is a clear, solvent-based, VOC-compliant, water-repellent sealer containing greater than 40% silane. It is used on vertical concrete and masonry and does not harm adjacent metal, glass, wood, or painted surfaces—which do not require cleaning after application.

Yield

Concrete:

125 – 250 ft²/gallon (3.1 –m²/L)

Stucco:

90 – 130 ft²/gallon (2.2 – 3.2 m²/L)

Brick (regular):

100 – 150 ft²/gallon (2.4 – 3.7 m²/L)

Brick (hard burnt, dense):

125 – 175 ft²/gallon (3.1 – 4.3 m²/L)

Coverage may vary greatly with porosity of the substrate; extremely porous substrate may require 2 coats. Perform test panels to ensure desired results and coverage rates.

Packaging

5 gallon (18.9 L) pails

53 gallon (201 L) drums

Color

Clear

Shelf Life

18 months when properly stored.

Storage

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

Features

- No masking of windows necessary
- No residue
- Greater than 40% silane
- Breathable
- Solvent based
- Water repellent
- Transparent, nonstaining
- Surface sealer

Benefits

- Requires no cleaning after application
- Will not harm glass windows, metal frames, or painted surfaces
- Penetrates deeply into the substrate
- Allows interior moisture to escape without damaging sealer
- Excellent for cold weather applications
- Helps to protect from damage caused by wind-driven rain and chloride intrusion
- Does not alter the natural surface appearance
- Helps reduce efflorescence, atmospheric staining, and mildew

Where to Use

LOCATION

- Vertical
- Exterior
- Above grade

SUBSTRATE

- New and existing concrete
- Brick
- Stucco

How to Apply

Surface Preparation

1. Clean new surfaces to remove all laitance, construction dust, and cured materials before application.
2. Thoroughly clean older surfaces to remove surface materials, previous coatings, alkali, efflorescence, sand, surface dust and dirt, oil, or grease.
3. Repoint any loose, disintegrated, or cracked mortar and allow a minimum of 72 hours drying time before application.
4. Air, surface, and material temperatures should be 20 to 95° F (-7 to 35° C) during application. Hydrozo[®] Clear 40 VOC may be applied to slightly damp surfaces.
5. Caulking and sealant work may be done before or after the application of the sealer. Sealant must be fully cured prior to application.



Technical Data

Composition

Hydrozo® Clear 40 VOC is an alcohol-based alkylalkoxysilane.

Typical Properties

PROPERTY	VALUE
Active alkylalkoxysilane content, % by weight	> 40
Penetration, in (mm) average depth depending upon substrate	0.20 (5)
Surface appearance after application	Unchanged

Test Data

PROPERTY	RESULTS	TEST METHODS
Flash point, ° F (° C)	53 (12)	SETA, IPA
Waterproofing after abrasion, % , at 220 ft ² /gal (5.5 m ² /L)	88.4	Alberta Transportation and Utilities Type 1B
Resistance to chloride ion penetration, lb/yd³ Criteria of 1.5 at 1/2" Criteria of 0.75 at 1"	< 0.22 < 0.00	AASHTO T259 and T260
Water weight gain, % reduction , at 200 ft ² /gal (5 m ² /L)	86 — exceeds criteria	NCHRP 244 Series II-cube test
Absorbed chloride, % reduction , at 200 ft ² /gal (5 m ² /L)	92 — exceeds criteria	NCHRP 244 Series II-cube test
Absorbed chloride, % reduction , at 200 ft ² /gal (5 m ² /L)	99 — exceeds criteria	NCHRP 244 Series IV - Southern climate
Moisture-vapor transmission rate, %	102	OHD-L-35

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

Application

1. Test a small area of the surface (minimum 5 by 5 ft [1.5 by 1.5 m]) before general application to ensure desired results and coverage rates and to verify application technique. Allow 5 – 7 days for the product to fully react before evaluating. Refer to Appendix HY-3: Test Area Application.
2. Mix material before and during application.
3. Apply by low-pressure, non-atomizing sprayer.
4. Apply from the bottom up for uniform distribution of the sealer. Apply to saturation, with a controlled rundown of 8" (20 cm). In certain cases, a mist coat before general application will help break the surface tension and assure maximum penetration of saturation coat.

Drying Time

Typical drying time for Hydrozo® Clear 40 VOC 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 with mineral spirits or xylene.

For Best Performance

- Do not apply during inclement weather or when inclement weather is anticipated within 12 hours.
- Protect asphalt-based products such as roofing materials or plastic products from overspray.
- To prevent damage to nearby shrubbery and landscaping, cover or protect with drop cloth.
- Caution should be taken with specialty coated glass. Small areas should be tested prior to application to ensure the product does not discolor the coating. Plastic windows will turn opaque when sprayed with this product.
- Variations in the texture and porosity of the substrate will affect the coverage and performance of the product.
- Hydrozo® Clear 40 VOC 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

HYDROZO® CLEAR 40 VOC

Warning

Hydrozo® Clear 40 VOC contains isopropyl alcohol and octyltriethoxysilane.

Risks

Flammable liquid and vapor. May cause skin and eye irritation. Inhalation of vapors may cause irritation and intoxication with headaches, dizziness and nausea. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage. Ingestion may cause irritation of the mouth, throat and stomach with nausea and abdominal pain. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Precautions

KEEP OUT OF REACH OF CHILDREN. KEEP AWAY FROM HEAT, FLAME AND SOURCES OF IGNITION. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Avoid breathing vapors. Keep container closed. Use only with adequate ventilation. DO NOT take internally. 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. DO NOT cut or weld on or near empty container. Empty container may contain explosive vapors or hazardous residues. All label warnings must be observed until container is commercially cleaned or reconditioned.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. 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, SEEK IMMEDIATE MEDICAL ATTENTION. If swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Should vomiting occur, keep victim's head below hips to avoid aspiration of vomitus into victim's lungs.

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

Proposition 65

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

VOC Content

Less than 5.01 lbs/gal 600 g/L, less water and exempt solvents.

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

**BASF Construction Chemicals, LLC –
Building Systems**

889 Valley Park Drive
Shakopee, MN, 55379

www.BuildingSystems.BASF.com

Customer Service 800-433-9517
Technical Service 800-243-6739



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