

PRODUCT DATA

7^{07 19 16} Water
Repellents

HYDROZO[®] 100 PLUS

Clear, penetrating water, oil and stain repellent sealer

Description

Hydrozo[®] 100 Plus is a clear, breathable, high-performance, clear, 100% silane sealer with an oleophobic additive for protecting new and existing concrete surfaces. It penetrates deeply, sealing out water, chloride ions, and acids—reducing staining caused by motor oils, grease, and food.

Yield

250 – 400 ft²/gallon (6 – 10 m²/L)

Packaging

5 gallon (18.9 L) pails

55 gallon (208 L) drums

Color

Clear

Shelf Life

18 months when stored properly.

Storage

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

Features

- Oleophobic additive
- Breathable
- 100% silane
- Superior water repellence
- Abrasion resistant

Benefits

- Reduces staining caused by motor oils, grease, and food
- Allows interior moisture to escape without damaging sealer
- Protects against damage from moisture intrusion and chloride-ion penetration
- Penetrates deeply and chemically reacts within the pores of concrete to form a long-lasting water repellent surface
- Provides long-lasting protection to horizontal substrates subject to traffic abrasion, such as bridge decks and highway surfaces

Where to Use

APPLICATION

- Stadiums
- Food courts
- Plazas
- Parking garages

LOCATION

- Vertical or horizontal
- Interior or exterior
- Above grade

SUBSTRATE

- New and existing concrete

How to Apply

Surface Preparation

1. Verify substrate has properly cured. Concrete should obtain 80% of design strength, typically achieved in 14 – 28 days.
2. Clean all surfaces of all sand, surface dust, and dirt, oil, grease, chemical films or coatings, and other contaminants prior to application. Use waterblast, sandblast, or shotblast as necessary to achieve the desired surface condition.
3. Air, material, and surface temperatures should be 40° F (4° C) or higher during application. Do not apply sealer when temperatures are expected to fall below 20° F (-7° C) within 12 hours or when rain is expected within 4 hours following application. Hydrozo[®] 100 Plus may be applied to slightly damp surfaces.
4. Crack control, caulking, patching, and expansion joint sealants should be installed prior to application of the sealer. Allow adequate curing time following sealant-manufacturer's recommendations.
5. Paint line striping before the application of Hydrozo[®] 100 Plus.

Technical Data

Composition

Hydrozo® 100 Plus is 100% silane by weight—with an oliophobic additive.

Typical Properties

PROPERTY	VALUE
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)	> 105 (> 41)	SETA
Water weight gain , % reduction		NCHRP 244
250 ft ² /gal (6.1 m ² /L)	90	Series II-cube test
400 ft ² /gal (9.8 m ² /L)	85	
Absorbed chloride , % reduction		NCHRP 244
250 ft ² /gal (6.1 m ² /L)	96	Series II-cube test
400 ft ² /gal (9.8 m ² /L)	87	
Absorbed chloride , % reduction	98 – exceeds criteria	NCHRP 244
		Series IV - Southern climate

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 5 – 7 days for the product to fully react before evaluating. Refer to Appendix HY-3: Test Area Application.
2. Stir material thoroughly before and during application.
3. Apply to saturation using low-pressure non-atomizing spray or pouring, followed by a squeegee or a broom for even distribution.

Drying Time

Typical drying time for Hydrozo® 100 Plus 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.
- 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.
- Hydrozo® 100 Plus will not inhibit water penetration through unsound or cracked surfaces or surfaces with defective flashing, caulking, or structural waterproofing.
- Spills should not be allowed to sit for extended periods of time. Clean all spills in a timely manner.
- 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® 100 PLUS

Caution

Hydrozo® 100 Plus contains octyltriethoxysilane and ethanol.

Risks

May cause skin, eye and respiratory irritation. Ingestion may cause irritation. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors. 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. 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 difficult occurs, or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

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

Proposition 65

This product contains materials listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

365 g/L or 3.05 lbs/gal, less water and exempt solvents.

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

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