

MasterProtect[®] H 1001

High performance, penetrating water, oil, and stain repellent sealer

FORMERLY HYDROZO[®] 100 PLUS

PACKAGING

- 5 gallon (18.9 L) pails
- 55 gallon (208 L) drums

COLOR

Clear

YIELD

250–400 ft²/gallon (6–10 m²/L)

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

STORAGE

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

SHELF LIFE

18 months when properly stored

VOC CONTENT

Less than 350 g/L less water and exempt solvents

DESCRIPTION

MasterProtect H 1001 is a clear, breathable, high-performance, 100% silane sealer that achieves highest depth of penetration with an oleophobic additive for protecting new and existing concrete surfaces by reducing staining caused by motor oils, grease, and food.

PRODUCT HIGHLIGHTS

- Oleophobic additive reduces staining caused by motor oils, grease, and food
- 100% silane
- Protects against chloride ion penetration
- Excellent depth of penetration
- Breathability allows interior moisture to escape without damaging sealer
- Solvent based, excellent for cold weather applications
- Protects structure from damage caused by wind-driven rain
- Does not alter surface appearance
- Surface sealer helps reduce efflorescence, atmospheric staining, and mildew
- Superior water repellence so it penetrates deeply and chemically reacts within the pores of concrete to form a long-lasting water repellent surface
- Abrasion resistant so it provides long-lasting protection to horizontal substrates subject to traffic abrasion, such as bridge decks and highway surfaces

SUBSTRATES

- Concrete

APPLICATIONS

- Interior and exterior
- Horizontal only
- Above grade
- Stadiums
- Food courts
- Plazas
- Parking garages

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. Power wash, 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. MasterProtect H 1001 may be applied to frost free surfaces as low as 20° F (-7° C). 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. MasterProtect H 1001 may be applied to slightly damp surfaces.

Technical Data

Composition

MasterProtect H 1001 is 100% silane by weight—
 with an oleophobic 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 METHOD
Flash point , ° F (° C)	165 (62.7)	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.

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. Following the application, remove excess product that might pond on a concave sealant joint.
5. Paint line striping before the application of MasterProtect H 1001.

APPLICATION

1. Test a small area of surface (minimum 5 by 5 ft [1.5 by 1.5m]) before general application to ensure desired performance results, aesthetics and coverage rates and to verify application technique. Allow 5-7 days for the product to fully react before evaluating. Contact Technical Service for detail.
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 MasterProtect H 1001 is 4-6 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 xylene or MasterSeal 990.

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.
- Protect asphalt-based products such as roofing materials or plastic products from overspray.
- MasterProtect H 1001 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 SDS are being used; visit www.master-builders-solutions.com/en-us to verify the most current version.
- Proper application is the responsibility of the user. Field visits by Master Builders Solutions 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.com/en-us, e-mailing your request to mbsbscst@mbcc-group.com or calling 1(800)433-9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

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