



HYDROBLOK

PENETRATING CONCRETE SEALER

**DENSIFY AND SEAL CONCRETE BLOCK WALLS AND
STOPS MOISTURE MIGRATION OR MAJOR SEEPAGE**

MANUFACTURER

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PRODUCT DESCRIPTION

HydroBlok is a concrete hardener that is a waterborne, non-flammable silicate penetrating solution. It is specifically designed as a concrete hardener and the stopping of moisture migration or major seepage of blocks walls or old porous concrete. **READ ALL INSTRUCTIONS BEFORE APPLICATION. Three applications minimum required.**

TECHNOLOGY

HydroBlok is a proprietary aqueous solution with a special penetrating agent that helps to deep seal of concrete that has severe moisture problems, sluffing or dusting (chaulking).

The formula will form a vapor permeable membrane within the block. The membrane will help reduce water migration or sweating as well as radon.

AREAS TO BE TREATED

Apply only to block surfaces.

PRIMARY BENEFITS

- Rapid performance
- Precipitates calcium-ions
- Vapor permeable
- Reduces freeze/thaw spall
- UV resistant
- Stops seepage
- Stops moisture migration
- Hardens surface
- Increases density
- Stops hazardous gases

TECHNICAL DATA

V.O.C. Compliant

Boiling Point: 214°F (101.1°C)

Flashpoint: -0-

Penetration: Variable with density

U.V. Resistance: Pass (QUV 7500 Hrs)

No Odor: pH: 7.9 Cured

Freezing point as liquid: 32°F (0°C)

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SURFACE PREPARATION

All concrete must be clean, virgin concrete, no paint or sealers. To remove algae spray down with a 50/50 mixture of bleach and tap water. Deck brush and hose down to rinse. Allow area to semi dry and apply **Hydro Blok** with an inexpensive low-pressure (garden type) pump sprayer that you can use for both products.

All CMU must be damp before applying Hydro Blok. Use clean tap water to dampen. Do not over saturate!

The material to be treated should be dry and free of non-integral dust, dirt, oil, wax, curing compounds, mildew, algae, alkali salts, efflorescence, coatings, and other graffiti matter. If being applied to an existing structure, the substrate should be thoroughly washed to remove all efflorescence, dirt, mildew, and fungi. Allow adequate time for drying prior to application.

- The temperature of the substrate should be 40°F to 100°F (4.4°C to 37.8°C)

Clean Substrates: Use methods compatible with substrates and required appearance including, as applicable.

- Sweeping and compressed air blasting.
- Water blasting.
- Sandblasting, follow with an air and/or water blast to remove loose particulate.
- Detergent scrubbing. Rinse with water and allow to dry.
- Chemical cleaners that are residual free and do not interfere with penetrating sealer/repellent. Rinse with water and allow substrate to dry.
 - Protect against over spray onto glass surfaces, plants, plastic, asphaltic surfaces, painted and polystyrene insulation surfaces. Do not spray on aluminum, copper, glass or plastic.
 - Protect surfaces against oil/grease/fuel drips caused by cleaning equipment and other contamination of surfaces that are to be tested prior to use.

EQUIPMENT

Spray Equipment: 60 psi or below airless, and/or Hudson pump up type. Tip should be fan pattern. Keep equipment and hoses clean and free of foreign contaminants that could obstruct equipment or be deposited on surfaces to be treated.

PROJECT CONDITIONS

Environmental Requirements: Do not apply when the following conditions are present, except with written instructions from manufacturer:

- Hot surfaces in direct sun.
- Ambient or surface temperature must be above freezing at the time of application and three days after.
- May take several days to dry after heavy rain or pressure washing. Avoid rain for 48 to 72 hours after application.
- Excessive humidity.
- Wet or frozen substrates.
- High winds which could cause excessive over spray.

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METHOD OF APPLICATION

Have some old rags ready to clean up any over spray or run down that may get on the floor, do not allow run down to gel or harden on the floor. NOTE! If a wall render is to be applied the wall must be free of all residual sealer by scrubbing with a deck brush and water 6 to 12 hours after the last application of **HydroBlok** or apply **HydroBlok** in smaller sections using three consecutive applications. While the wall is still damp from the sealer apply the wall render.

1. Mix well before using.
2. The wall must be clean and free of all paint or coatings.
3. Remove loose debris with a stiff brush.
4. Dampen the wall with water before applying your sealer. This may stimulate more efflorescence but do not be alarmed.
5. Apply a wet liberal application of **HydroBlok** starting at the top of the wall spraying in left to right motions. The sealer should not cascade down the wall more than 12" before all liquid has penetrated.
6. Apply the second application in the same manor, while the wall is still damp, only waiting 15 to 20 minutes from the previous coat. No longer than 30 minutes between applications.
7. Apply the third application, 15 to 20 minutes from the previous, in an up and down motion for best coverage. **CAUTION-DO NOT OVER APPLY.** Mop up an excessive runoff.
8. Use a deck brush and a liberal amount of water 6 to 12 hours after the last application, vigorously brush to remove all residual sealer and purged contaminants from all surfaces that are to be painted or have other coatings or adhesives applied.
9. Allow sealer 10 days to pre-cure before applying paint or another topical treatment.
10. Once clean, apply two consecutive applications of NCS-20 or CS-20+, waiting only 15 to 20 minutes between coats.

Mapei Keraset Wall Sealing System

CMU blocks are over 40% porous but with Endur-O-Seal's three-step process, you can achieve a 100% seal. You would do these first two steps in 6' wide sections by the height of the wall. Using a garden variety two-gallon sprayer or an airless sprayer set at 60 psi or lower, apply three wet applications of **Hydro Blok**. While that section of wall is still damp, parge it with Mapei Keraset. Using a notched trowel, apply the Mapei Keraset to the wall and then turn the trowel over to the smooth side and force the Keraset down into the pore openings. This will give you a smooth surface but not thick like stucco.

Continue this two-step process until the basement walls are completed. Let this cure for 48 hours then apply two applications of NCS-20 Negative for interior applications and CS-20+ for exterior applications. This will penetrate the Keraset and fuse into the concrete block creating a full membrane ¾" to 1" deep on the face side of the block for a 100% seal.

The wall will be paint able if you desire or you can finish it out with sheet rock without worry of moisture transmission and mold growth.

If you have any questions please feel free to call for technical advice.

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COVERAGE

Apply in accordance with the rates stated below or per architectural guide specifications. The following are approximate and may vary due to porosity of material to be treated. Do not dilute or modify, apply as supplied. Mix well before using.

Vertical Surfaces: Up to 400 sq. ft./gal.

PACKING AND STORAGE

Available in five gallon pails and 55 gallon drums. Storage should be maintained in sealed containers between 32°F and 100°F (0°C and 37.8°C) and out of direct sunlight for up to one year. If product freezes, vigorous mixing is needed to restore the sealer.

CLEANING

Clean overspray on glass or metallic surfaces before evaporation of water. Wipe dry with clean, dry-cloth. If material has cured use a 50/50 mix of denatured alcohol and water and rub with a clean cloth.

PROTECTION

- Avoid over applying by means of puddling.
- Do not permit traffic on treated surfaces until completely penetrated and the substrate is fully dry.
- Treated areas should be kept moisture free for 8 to 12 hours after application
- **Always utilize proper industrial hygiene practices.**
- Adequate ventilation should be provided during application and observe manufacturer's safety instructions. Read SDS and labels before using.

CONTENTS

Sodium Silicate CAS# 1344-09-8

WARRANTY

The information and recommendations made herein are based on research and that of others and are believed to be accurate. No Guarantee of test accuracy is made due to the considerable number of variables which can affect field application and performance of products including but not limited to surface conditions, job conditions. Users and purchasers are encouraged to determine the suitability of this product for particular purposes. EOS SYSTEMS warrants this product to conform to stated specifications and be free of defects at time of shipment. The company makes no other warranties either express or implied.

CUSTOMER/TECHNICAL SERVICE

SYSTEMS provides a variety of technical services regarding the function and use of product. If you have any questions please contact your sales representative for further information 800-259-8855.

SAFETY INFORMATION

Please refer to Safety Data Sheet.

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