



# HYDRASEAL

## PENETRATING CONCRETE SEALER

DENSIFY AND SEAL CONCRETE SLABS AND WALLS AND STOPS MOISTURE MIGRATION OR MAJOR SEEPAGE ON CONCRETE THAT IS YOUNGER THAN 25 YEARS OF AGE

### MANUFACTURER

ENDUR-O-SEAL USA, Inc.  
Pinehurst, Texas 77362  
800-259-8855

### PRODUCT DESCRIPTION

**HydraSeal** is a waterborne, non-flammable silicate penetrating concrete hardener. They are specifically designed as a concrete hardener and the stopping of moisture migration or major seepage of concrete decks, slabs, walls, driveways and foundations. **READ ALL INSTRUCTIONS BEFORE APPLICATION. Two applications (three for walls) minimum required.**

### TECHNOLOGY

**HydraSeal** is a proprietary aqueous solutions with special penetrating agents that help deep sealing of concrete that has severe moisture problems, sluffing or dusting.

The formula reacts with the free lime in the concrete to form a vapor permeable membrane. **HydraSeal** will virtually eliminate MVTR in existing or new concrete. The membrane will stop water migration or sweating between 10 and 15 psi of hydrostatic head pressure as well as radon.

### AREAS TO BE TREATED

Poured less porous smooth surfaces in concrete that is younger than 25 years of age. Formulated for use on tightly troweled finishes. **Exclusions:** Stamped, colored or stained concrete, pavers, bricks, tile, natural stones, polished concrete and blocks.

### PRIMARY BENEFITS

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

### 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

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.

- If the surface to be treated is efflorescing or crumbling, remove the loose debris with a stiff brush.
- 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:

- Allow new concrete to cure for 28 days.
- 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

**Poured Walls:** Apply in a three wet-on-wet application.

1. Mix well before using.
2. The wall must be clean and free of all paint or coatings.
3. If the wall is efflorescing or crumbling, remove the loose debris with a stiff brush. **DO NOT USE A WIRE BRUSH.**
4. Dampen the wall with water before applying your sealer. This may stimulate more efflorescence but do not be alarmed.
5. Apply **HydraSeal** 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. **CAUTION-DO NOT ALLOW TO PUDDLE, DO NOT OVER APPLY.**
6. Spray one wall at a time returning to the starting point and apply the second application in the same manor while the wall is still damp.
7. Return to the starting point and apply the third application in an up and down motion for best coverage; wait 15 to 20 minutes between applications, no more than 30 minutes.
8. Four to six hours after applying the third application scrub down the wall with water and a deck brush to remove any residual sealer.
9. Allow the sealer to pre-cure for at least 10 days before applying NCS-20 Negative. The wall will purge any excess efflorescence during these pre-cure days, broom it off to the floor and vacuum. Under normal conditions purging will stop within seven (7) days.
10. If you had a crumbling wall you will not see hardening results for a minimum of 30 days allowing the chemistry to fully take effect.

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

**Floors:** Apply in a two wet-on-wet application.

1. Mix well before using.
2. The floor must be clean and free of all paint or coatings.
3. If the floor is efflorescing or crumbling, remove the loose debris with a stiff brush. **DO NOT USE A WIRE BRUSH.**
4. Dampen the floor with water before applying your sealer. Concrete should be saturated well but there should be no standing water. This may stimulate more efflorescence but do not be alarmed.
5. Apply **HydraSeal** if floor is smooth/younger than 25 years. Apply HydraLoc (if floor is broom finished/older than 25 years) spraying in left to right motions. **CAUTION-DO NOT ALLOW TO PUDDLE, DO NOT OVER APPLY.**
6. Spray one area at a time returning to the starting point and apply the second application in the same manor, while the floor is still damp. Wait 15 to 20 minutes between applications, no more than 30 minutes.
7. Return to the starting point and apply the third application (only if directed by an representative).
8. Four to six hours after applying the final application scrub the floor with water and a deck brush or power scrubber to remove any residual sealer.
9. Allow the sealer to pre-cure for at least 10 days before applying NCS-20 Negative. The floor will purge any excess efflorescence during these pre-cure days, use a vacuum to remove this dust. Under normal conditions purging will stop within seven days.
10. If you had a crumbling floor you will not see hardening results for a minimum of 30 days allowing the chemistry to fully take effect.

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

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## PENETRATING CONCRETE SEALER

### METHOD OF APPLICATION (con't)

#### Professional Applicators Only:

Read all Product Bulletins Product Labels before application. Note mixing instructions.

#### For Optimum Results on Slabs or Floors

1. Shot blast total floor to 60 grit finish. (CSP Standards, 330 Shot size)
2. Vacuum floor after shot blasting to remove all dust.
  - a. It is very important that all fine dust is removed before applying sealer.
3. Apply deep penetrating sealer by sprayer.
  - a. Sealer can be applied with an air-less sprayer 60 psi or below or with a poly pump up sprayer such as a Hudson unit with a fan tip.
  - b. Dampen floor with clean water, concrete must be thoroughly damp before applying deep penetrating sealer. Note! No standing water allowed.
  - c. Apply sealer to manageable sections and mark perimeter so there is a good overlap of product from section to section.
  - d. Apply a shiny wet application at a rate of 125 to 150 square feet per gallon.
  - e. When first application has penetrated apply the second application while concrete is still damp from first application, 15 to 20 minutes.
  - f. Apply third application (if needed) at the same rate as first and second application perpendicular to second application for good cross hatch pattern.
  - g. Allow the third application to pre-cure for 6 to 12 hours.
  - h. Using a portable floor scrubbing machine clean the total surface of all residual sealer using clean water. A damp floor will not negatively affect the sealer. Allow sealer to cure for approximately 10 days to reduce the moisture content of the concrete, 15% moisture content maximum allowed before applying NCS-20 Negative.
4. Spray apply NCS-20 Negative. An air-less sprayer can used, 40 to 60 psi maximum. Note recommended tip size. Mix per label instructions and add catalyst that comes with order.
  - a. Apply sealer in manageable sections larger or smaller in size than the deep penetrating sealer was applied for best coverage.
  - b. Spray apply a wet application allowing sealer to penetrate the concrete until all shiny liquid sealer is gone. If there are some hard spots in the floor and residual sealer has accumulated in low sections after 10 to 12 minutes blot or wipe up excess with a soft cotton rag.
  - c. Apply the second application while concrete is still damp from first application. Follow the same instructions as 3d. No excess sealer should be allowed to gel out on the surface.
  - d. Second application of NCS-20 Negative should be applied in a perpendicular pattern to the first application. Do not over apply second application, a good damp application is all that is necessary.
  - e. Allow NCS-20 Negative to fully cure for 96 hours before walking on the surface or attaching any VCT or carpet tile.

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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:** 100-150 sq. ft./gal.

**Horizontal Surfaces:** 150-200 sq. ft./gal.

### PACKING AND STORAGE

Available in five gallon pails and 55 gallon drums. Storage should be maintained in sealed containers between 40°F and 100°F (4.4°C and 37.8°C) and out of direct sunlight.

### 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. Do not store anything on area for 10 days.
- 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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