

# GUIDE SPECIFICATIONS

## PENETRATING SEALERS / WATER REPELLENTS

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**DESIGN REQUIREMENTS: ENDUR-O-SEAL EOS POLY TOP SEAL CS-20** penetrating sealer protects buildings, bridges and other structures against damage due to water penetration. EOS POLY TOP SEAL CS-20 is applicable on: 1. Precast concrete; 2. Concrete Masonry Units; 3. Poured in Place Concrete; 4. Concrete Pavers; 5. Stucco; 6. Cast Stone. EOS POLY TOP SEAL CS-20 provides long lasting protection against efflorescence (salt or lime leaching), staining due to atmospheric carbons, mold, mildew, metal, salts, chloride penetration, corrosion, acid rain, dampness, and other water related damage. For complete product information call Endur-O-Seal USA, Inc. AT 1-800-259-8855 OR FAX 1-282-356-9332.

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### **PART 1. GENERAL**

#### 1.01 SUMMARY

- A. Penetrating Sealers / water repellents

#### 1.02 SUBMITTALS

- A. Follow section 01340
- B. Submit Endur-O-Seal USA, Inc. product data and application instructions

#### 1.03 QUALITY ASSURANCE & CONTROL

- A. Follow section 01400
- B. Applicator: Company specializing in applying coatings, waterproofing/repellents with five (5) years minimum experience and approved by manufacturer required. Consult local distributor or Endur-O-Seal USA,/Endur-O-Seal Labs for recommendations.

#### 1.04

- A. Field samples should be applied prior to general execution of work to determine visual and physical or chemical effect of sealer. Prepare substrates and apply EOS Poly Top Seal CS-20 to a 100 square foot area. Apply to locations indicated by architect/designer/engineer. Notify architect/ designer/engineer seven (7) days prior to application of field sample.
- B. Test area samples may remain as part of general work.
- C. Sample shall indicate that there is no change appearance and when water is poured on the sample, the water shall bead or run off and not soak in.

#### 1.05 DELIVERY, STORAGE AND HANDLING

- A. Follow section 01610 (no air transport) (vented container)
- B. Deliver products to site with containers unopened and with manufacturer's seal intact.

#### 1.06 PROJECT CONDITIONS

- A. Environmental Requirements: Do not apply EOS Poly Top Seal CS-20 when the following conditions are present, except with written instructions from manufacturer:
  - 1. Ambient or surface temperature less than 40° F within twenty four (24) hours prior to or following application.
  - 2. Rain within seventy- two (72) hours prior to application or predicted within twenty- four (24) hours after application.
  - 3. Wet or frozen substrates
  - 4. High winds which could cause excessive over spray.

#### 1.07 SCHEDULING

- A. Apply EOS Poly Top Seal CS-20 as early as practical to protect substrates during construction. Do not apply to walls until wall cap is finalized.

- B. Poured/ Cast-in-Place Concrete Substrates: Allow to cure seven (7) to ten (10) days before treatment. (Based on 70° F & 60% relative humidity)
- C. Concrete Masonry Substrates: Allow mortar to cure seven (7) days before treatment.

1.08 WARRANTY

- A. Provide Manufacturer's limited five (5) year warranty. Failure is indicated by water soaking into the substrate surface, when water is placed on surface.

**PART 2 PRODUCTS**

2.01 MANUFACTURERS

- A. Endur-O-Seal USA, Inc./ Endur-O-Seal Labs., 1-800-259-8855 or 1-281-356-9332 fax.

2.02 MATERIALS

- A. EOS Poly Top Seal CS-20 : Water based membrane-forming polysiloxane penetrating sealer; this system is non-flammable, non-hazardous and non-toxic.
  - 1. Maximum VOC content; 0.19 lbs/gallon, complies with all applicable regulations regarding VOC's.
  - 2. **Do not dilute or modify** EOS Poly Top Seal CS-20 , apply as supplied.

2.03 EQUIPMENT

- A. Spray Equipment: 40-70 psi airless, pressure pot or Hudson pump up type. Tip should be fan pattern and of the size (Hudson 80-5R Color Jet) or smaller. Keep equipment and hoses clean and free of foreign contaminants that could obstruct equipment or be deposited on surfaces to be treated. **Note! Do not over saturate!**
- B. Brush, Roller.

**PART 3 EXECUTION**

3.01 INSTALLATION

- A. Confirm that the substrates have been prepared properly, and weather conditions are suitable for application. Notify architect/designer/engineer in writing of unsatisfactory substrates and conditions. Do not continue until conditions have been corrected in a manner acceptable to applicator.
  - 1. Sweeping and compressed air blasting
  - 2. Water blasting
  - 3. Sandblasting, Follow with an air and/or water blast to remove loose particulate.
  - 4. Detergent scrubbing. Rinse with water and allow to dry.
  - 5. Chemical cleaners which are residual free and do not interfere with penetrating sealer/repellent. Rinse with water and allow substrate to dry.

If you have questions or concerns, consult Endur-O-Seal USA, Inc./Endur-O-Seal Labs at 1-800-259-8855 or FAX 1-281-356-5117 for information or recommendations.

Always protect glass and non-porous materials. EOS Poly Top Seal CS-20 will not harm plants, asphalt, glass, metal or aluminum. Some plastics, such as polystyrene will be damaged by EOS Poly Top Seal CS-20 . EOS Poly Top Seal CS-20 is compatible with most joint sealants, specific joint sealants should be investigated for adhesion to treated surfaces. Contact Endur-O-Seal USA, Inc for assistance. 1-800-259-8855

- a. Protect against over spray onto glass surfaces, plants, plastic, asphaltic surfaces, painted and polystyrene insulation surfaces.
- b. Protect surfaces against oil/grease/fuel drips caused by cleaning equipment and other contamination of surfaces that are to be tested.

B. JOINT SEALANTS

1. If necessary, install joint sealants as specified in other sections and allow to cure before application of water repellent.
2. If joint sealants are installed after application of EOS Poly Top Seal CS-20 , verify adhesion of joint sealant to treated surfaces, prior to execution of work. If required, protect joint sealant adhesion surfaces against over spray.
3. Install asphaltic joint sealant after application of EOS Poly Top Seal CS-20 .

3.03 APPLICATION

A. General:

1. Properly clean and dry area to be treated, if unsure as to the best procedure, contact Endur-O-Seal or substrate manufacturer.
2. The temperature of the substrate should be 40°F – 120 (4.4 C - 49° C)
3. The area to be treated should have relative moisture content of less than 10 / 15%. If substrate is above moisture specification levels a cloudy haze can occur on dark colors.
4. The EOS Poly Top Seal CS-20 should be thoroughly stirred prior to application.
5. Apply a thorough wetting coat in accordance with rates specified below, but **DO NOT SATURATE.**
6. If applying by spray, motion should be side to side and followed by a crosshatch up and down motion.
7. On horizontal applications, remove any excess after fifteen (15) minutes from initial application (use clean mop or cotton cloth).
8. *Treated areas should be kept moisture free for 8-12 hours after application.*
9. \*\*\***Always test a sample are prior to application**\*\*\*.

- B. If work is stopped prior to completion, clearly mark location and resume work without any gap in coverage.

C. COVERAGE:

1. **Vertical Surfaces:**

Precast:	250 (minimum)/ 400 (maximum) sq. ft./Gal.
Poured-in-place:	250 (minimum)/ 350 (maximum) sq. ft./Gal.
Stucco:	250 (minimum)/ 350 (maximum) sq. ft./Gal.

2. **Horizontal Surfaces:**

Poured-n-place:	250 (minimum)/ 300 (maximum) sq. ft./Gal.
Pavers:	150 (minimum)/ 300 (maximum) sq. ft./Gal.
Terrazzo:	300 (minimum)/ 400 (maximum) sq. ft./Gal.

3.04 CLEANING

- A. 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.

3.05 PROTECTION

- A. Do not permit traffic on treated surfaces until EOS Poly Top Seal has completely penetrated and the substrate is fully dry.
- B. Treated areas should be kept moisture free for 8-12 hrs. after application.
- C. **Always utilize proper industrial hygiene practices.** Adequate ventilation should be provided during application and observe manufacturer's safety instructions. Read MSDS and labels before using.

END OF SECTION