

GUIDE SPECIFICATIONS

PENETRATING SEALERS / WATER REPELLENTS

DESIGN REQUIREMENTS: ENDUR-O-SEAL POLY TOP SEAL CSx-20 (ST-2O) is a specifically formulated polysiloxane/ Teflon® system that protects concrete floors, driveways and other structures against damage due to water penetration and staining due to oils, grease and a variety of solvents. Poly Top Seal CSx-2O provides long lasting protection against efflorescence (salt or lime leaching), staining due to atmospheric carbons, mold, mildew, metal, salts, chloride penetration, corrosion, most acids, acid rain, caustics, dampness, and other water related damage. Stops ground water migration. For complete product information call Endur-O-Seal USA, Inc. at 1-800-259-8855 or fax (281) 356-9332.

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/Commercial: 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,/EOS Systems for recommendations.

1.04 FIELD SAMPLES

- 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 Poly Top Seal CSx-2O 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
- B. Deliver products to site with containers unopened and with manufacturer's seal intact.

1.06 PROJECT CONDITIONS

- A. Environmental Requirements: Do not apply Poly Top Seal CSx-2O when the following conditions are present, except with written instructions from manufacturer:

- B. Ambient or surface temperature less than 40° F within twenty four (24) hours prior to or following application.
- C. Rain within seventy- two (72) hours prior to application or predicted within twenty- four (24) hours after application.
- D. Wet or frozen substrates
- E. High winds which could cause excessive over spray.

1.07 SCHEDULING

- A. Apply Poly Top Seal CSx-2O as early as practical to protect substrates during construction. Do not apply to walls until wall cap is finalized.
- B. Allow joint mortar to cure seven (7) days before treatment. (Based on 70° F & 60% relative humidity)

1.08 WARRANTY

- A. 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

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

2.02 MATERIALS

- A. Poly Top Seal CSx-2O: Water based membrane-forming polysiloxane penetrating sealer; this system is non-flammable, non-hazardous and non-toxic.
 - 1. Maximum VOC content; 0.27 lbs/gallon, complies with all applicable regulations regarding VOC's.
 - 2. **Do not dilute or modify** Poly Top Seal CSx-2O, apply as supplied.

2.03 EQUIPMENT

- A. Spray Equipment: 60 psi or below airless, and/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!**

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.

3.02 PREPARATION

- A. Clean substrates: Remove dirt, oil, wax, curing compounds, efflorescence, coatings and other graffiti matter. Use methods compatible with substrates and required appearance including, as applicable.
 - 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 that 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 at 1-800-259-8855 or FAX 281-356-9332 for information or recommendations.

Always protect glass and non-porous materials. Poly Top Seal CSx-2O will not harm plants, asphalt, glass, metal or aluminum. Some plastics, such as polystyrene, will be damaged by EOS Poly Top Sealer. Poly Top Seal CSx-2O 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 Poly Top Seal CSx-2O, 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 Sealer.

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°F (4.4 C - 49° C)
 - 3. The area to be treated should have relative moisture content of less than 15%.
 - 4. The Poly Top Seal CSx-2O should be thoroughly stirred/ mixed prior to application.
 - 5. Apply a thorough wetting coat in accordance with rates specified below, but **Do Over 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:	350 (minimum)/ 450 (maximum) sq. ft./Gal.
CMU (smooth):	250 (Minimum)/ 300 (maximum) sq. ft./Gal.
CMU (Split face):	200 (Minimum)/ 275 (maximum) sq. ft./Gal.

(some split face block may require several applications)

2. Horizontal Surfaces:

Poured in-place:	300 (minimum)/ 400 (maximum) sq. ft./Gal.
Compressed paver:	100 (minimum)/ 200 (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 Poly Top Seal CSx-20 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