GUIDE SPECIFICATIONS

PENETRATING SEALERS / WATER REPELLENTS

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DESIGN REQUIREMENTS: EOS SYSTEMS NCS-2O NEGATIVE is a specifically formulated and negatively charged penetrating sealer. EOS NCS-2O NEGATIVE forms an integral elastomeric membrane within the concrete substrate that prevents water and / or moisture vapor transmission from the negative side. EOS NCS-2O NEGATIVE is applicable on: 1. Vertical or horizontal Poured-in-place concrete (at or below grade applications), 2. Pre-cast Concrete. For complete product information call EOS SYSTEMS at (281) 356-5117 or fax (281) 356-9332 **Two (2) applications minimum required**.

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PART 1. GENERAL

1.01 SUMMARY

A. Negative side functioning penetrating sealers.

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 EOS NCS-2O NEGATIVE. Prepare substrates and apply EOS NCS-2O NEGATIVE per specifications. Apply to locations acceptable by architect/designer/engineer four (4) to seven (7) days prior to application of field sample.
B. Test area samples may remain as part of general work.

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 EOS NCS-2O NEGATIVE when the following conditions are present, except with written instructions from manufacturer:
    1. Ambient or surface temperature less than 40° F or predicted to fall below 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. If interior substrate is wet or damp apply two (2) applications of EOS Hydra Seal to assist in drying wall. Anhydrous Isopropyl Alcohol can also be used to dry the substrates. Care must be used when using AIA because of flash points.

1.07 SCHEDULING

A. Apply EOS NCS-2O NEGATIVE as early as practical to protect substrates during construction. For new construction, do not apply to interior below grade walls until;
   1. The wall exterior has been coated with a waterproofing membrane (EOS Poly Top Seal NCS-20) or specified mastic.
   2. Wall cap has been finalized.

B. Pour/Cast-in-Place Concrete Substrates: Allow to cure fourteen (14) to twenty-one (21) 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. 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. EOS NCS-2O NEGATIVE: Water based, negative-side, 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 NCS-2O NEGATIVE, apply as supplied.
   3. Mix well before using.

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.

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. EOS NCS-2O NEGATIVE will not harm plants, asphalt, glass, metal or aluminum. Some plastics, such as polystyrene, will be damaged by EOS Sealer. EOS NCS-2O NEGATIVE 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 NCS-2O NEGATIVE, 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 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 – 120ºF (4.4 C - 49° C)
   3. The area to be treated should have relative moisture content of less than 15%.
   4. The EOS NCS-2O NEGATIVE 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:
Two (2) applications minimum required.

EOS NCS-2O NEGATIVE: Vertical wall surfaces	250(minimum)/300(maximum) sq. ft./Gal
EOS NCS-2O NEGATIVE: Smooth horizontal surfaces	250(minimum)/400(maximum) sq. ft./Gal
EOS NCS-2O NEGATIVE Light broom finished surfaces	150(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 EOS NCS-20 Negative 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