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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) Format, including *MasterFormat* (1995 Edition), *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

SECTION 03390

CONCRETE CURING COVERS

Specifier Notes: This section covers Reef Industries, Inc. "Transguard® 4000" reusable concrete wet cure covers.

To prepare a "Short Form" version of this section, delete Articles 1.2 Related Sections, 1.3 References, and 1.5 Quality Assurance. Renumber remaining articles in Part 1.

Consult Reef Industries for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Reusable concrete wet cure covers.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list as required for the project. List other sections with work directly related to the wet cure covers.

- A. Section 03300 - Cast-in-Place Concrete.
- B. Section 03700 - Mass Concrete.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. AASHTO M 171 - Sheet Materials for Curing Concrete.
- B. ASTM C 156 - Water Retention by Concrete Curing Materials.
- C. ASTM D 882 - Tensile Properties of Thin Plastic Sheeting.
- D. ASTM D 1709 - Impact Resistance of Plastic Film by the Free-Falling Dart Method.
- E. ASTM D 2103 - Polyethylene Film and Sheeting.
- F. ASTM D 2582 - Puncture-Propagation Tear Resistance of Plastic Film and Thin Sheeting.
- G. ASTM D 3786 - Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics: Diaphragm Bursting Strength Tester Method.
- H. ASTM D 4533 - Trapezoid Tearing Strength of Geotextiles.
- I. ASTM D 4545 - Integrity of Factory Seams Used in Joining Manufactured Flexible Sheet Geomembranes.
- J. ASTM D 4833 - Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products.
- K. ASTM D 5199 - Measuring Nominal Thickness of Geotextiles and Geomembranes.
- L. ASTM D 5735 - Tearing Strength of Nonwoven Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine).
- M. ASTM E 1347 - Color and Color-Difference Measurement by Tristimulus (Filter) Colorimetry.

1.4 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Samples: Submit manufacturer's sample of wet cure covers.

1.5 QUALITY ASSURANCE

Specifier Notes: Describe requirements for a meeting to coordinate the installation of the wet cure covers and to sequence related work. Delete this paragraph if not required.

- A. Preinstallation Meeting: Convene a preinstallation meeting [2] [_____] weeks before start of installation of wet cure covers. Require attendance of parties directly affecting work of this section, including Contractor, Architect, and installer. Review installation, protection, and

coordination with other work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original unopened packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Reef Industries, Inc., PO Box 750250, Houston, Texas 77275-0250. Toll Free (800) 231-6074. Phone (713) 507-4200. Fax (713) 507-4295. Web Site www.reefindustries.com. E-Mail ri@reefindustries.com.

2.2 CONCRETE CURING COVERS

- A. Reusable Concrete Wet Cure Covers: Transguard® 4000.
 - 1. Material: Synthetic fiber mat with polyethylene sheet backing.
 - 2. Standard Weight, ASTM D 2103: 52 lb/1,000 ft² (25.4 kg/100 m²).
 - 3. Thickness, ASTM D 5199: 42 mils (1.1 mm).
 - 4. Grab Tensile, ASTM D 4632
 - a. Machine Direction: 130 lbf (578N)
 - b. Transverse Direction: 185 lbf (823N)
 - 5. Grab Elongation, ASTM D 4632
 - a. Machine Direction: 65%
 - b. Transverse Direction: 55%
 - 6. Trapezoidal Tear, ASTM D 4533
 - a. Machine Direction: 34 lbf (151 N)
 - b. Transverse Direction: 54 lbf (240N)
 - 7. Dart Impact, ASTM D 1709: 1.5 lb (.7 kg)
 - 8. Hydraulic Burst, ASTM D 3786: 190 psi (1.3 Mpa)
 - 9. Water Retention Moisture Loss, ASTM C 156:
 - a. 0.0062 oz/in² (0.027 g/cm²)
 - b. 0.0558 lbs/ft² (.272 kg/m²)
 - 10. Reflectance, ASTM E 1347: 79 percent.
 - 11. Puncture Strength, ASTM D 4833: 70 lb (31.8 kg).
 - 12. Reflection and Moisture Retention, AASHTO M 171: Complies.
 - 13. Color: White.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive wet cure covers. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Install wet cure covers in accordance with manufacturer's instructions.
- B. Install covers in largest practical widths.
- C. Thoroughly soak nonwoven synthetic side of covers.
- D. Install covers with white poly side up.
- E. Overlap adjoining covers a minimum of 18 inches.
- F. Weight all laps and outside edges to prevent displacement.
- G. Ensure intimate contact between covers and concrete surface by weighting and overlapping.
- H. Rewet covers as necessary.

3.3 PROTECTION

- A. Protect wet cure covers from damage during curing of concrete.

END OF SECTION