**SECTION 07 14 00**

**FLUID APPLIED WATERPROOFING**

Multicoat Below-Grade Waterproofing System

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*This guide specification has been prepared by Multicoat Product Systems, in printed and electronic media, as an aid to specifiers in preparing written construction documents for a multilayer waterproofing system for various below grade substrates. The MULTICOAT SLATEX BELOW GRADE SYSTEM is a multilayer seamless protective coating which combines an elastomeric waterproof membrane (MULASTICOAT) with a Synthetic Resin modified cementitious coating. The SLATEX BELOW GRADE SYSTEM can be applied to most surfaces such as concrete block, poured in place concrete, ICF (insulated concrete form), slumpstone, polyfoam sheathing, etc.*

*This guide specification intended use is for multiple applications. Delete the section and tile not applicable. Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [\_\_\_\_\_] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these notes before final printing of specification.*

*This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.*

*For specification assistance on specific product applications, please contact our offices or any of our local product representatives throughout the country.*

*Multicoat Product Systems reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer’s web site and/or in printed matter as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.*

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1. GENERAL
	* + 1. RELATED DOCUMENTS
				1. Drawings and other Contract Documents, listed in the agreement between the Owner and Contractor, apply to this Section.
			2. RELATED SECTIONS
				1. 03 50 00 – Cementitious Decks and Underlayments
			3. SUMMARY
				1. Section includes a multi-layer waterproof system used as a protective coating designed for below grade substrates including concrete block, poured in place concrete, ICF (insulated concrete form), slumpstone, polyfoam sheathing.
				2. SUBMITTALS
				3. Product Data:

1. Submit manufacturer's descriptive literature and product specifications for each product.

2. Submit laboratory tests or data that validate product compliance with the performance criteria specified.

* + - 1. QUALITY ASSURANCE
				1. Installer Qualifications:

1. Acceptable to manufacturer with documented experience on at least 2 projects of similar nature in past 2 years and/or training provided by the product manufacturer.

* + - * 1. Manufacturer Qualifications:

1. Company specializing in manufacturing Products specified in this Section with minimum **[10]** years documented experience.

* + - 1. DELIVERY AND STORAGE
				1. Deliver, store off the ground and covered, handle and protect products from moisture in accordance with manufacturer's instructions.
				2. Deliver materials in manufacturer's unopened containers, fully identified with brand, type, grade, class and all other qualifying information. Provide Material Safety Data Sheets for each product.
				3. Take necessary precautions to keep products clean, dry and free of damage.
			2. WARRANTY
				1. Materials are guaranteed with respect to uniformity and quality within manufacturer’s specifications.
			3. PROJECT CONDITIONS
				1. Do not apply if substrate temperature is below 40°F or above 100°F, or if ambient temperature below 40°F and falling, above 100°F and expected to rise.
				2. Do not apply if precipitation is expected within a twenty four (24) hour period.
1. PRODUCTS
	* + 1. MANUFACTURER
				1. Multicoat Corporation 23331 Antonio Parkway, Rancho Santa Margarita, CA 92688, 877-685-8426, Email: info@multicoat.com, www.multicoat.com
			2. MATERIALS

A multilayer seamless protective coating which combines an elastomeric waterproof membrane with a Synthetic Resin modified cementitious coating.

A. MULTICOAT MULASTICOAT an elastomeric waterproofing membrane

1. Tensile Strength & Elongation: 119.6 psi / Elongation 1494.5% (ASTM-D2370)

2. Tensile Bond Adhesion, PSI: 162 Cohesive (ASTM C297)

3. Low Temperature Flexibility: ½” Room Temp Pass (ASTM D522)

 (Mandrel Bend)                        1” @ -5F    Pass

                                                                       ½” @ -5F    Pass

4. Static Hydrostatic Pressure Test: Pass >45psi (ASTM C1306)

5. Hydrostatic Head: 12” Water/Film @ 40mil Pass 96 hour/no effect

B. MULTICOAT SCRATCH KOTE 2000 is a super bonding synthetic resin modified cementitious coating which forms a hard, rough textured base coat, securely bonding to a properly prepared substrate.

1. Weatherometer: 2000 hrs. – Passed (ASTM G23)

2. Compressive Strength: 2595 psi @ 45 Days air cured - (ASTM C109)

3. Flexural Strength: Modulus of Rupture - 770psi (ASTM-D790)

4. Tensile Strength: 457 psi (ASTM-C190)

5. Bond Strength (Flatwise Tension): 225 psi (ASTM-C297)

6. Abrasion Test: 1000cyc-1000gms (ASTM-1242A)

7. 50-Cycle Freeze thaw: Passed (ASTM-C67)

8. Impact Resistance: MIL-D-3134F Passed

* + - 1. ACCESSORY MATERIALS
				1. Patching Compound: MULTICOAT SPEED BOND CRACK REPAIR SYSTEM is comprised of a unique two component water based polyurethane material. Speed Bond is used to repair cracks, holes, and depressions prior to the application of various Multicoat Systems. It is a two-part material packaged in a standard caulking tube which does not require any special tools.
				2. Concrete Repair: MULTICOAT SPEED MIX 2000 is a fast setting, resin modified, hydraulic cement. It is used by itself for most types of concrete repair such as leveling, filling cavities and cracks. Can be used interior or exterior, vertical, horizontal or overhead.
				3. Water: Potable.
1. EXECUTION
	* + 1. EXAMINATION
				1. Examine substrates and adjoining construction, and conditions under which Work is to be installed. Do not proceed with Work until unsatisfactory conditions are corrected.
				2. Verify the following substrate conditions before application of waterproof system:

1. That substrate condition is satisfactory and in accordance with manufacturer's instructions.

2. That concrete surfaces are free of voids, spalled areas, loose aggregate and sharp protrusions, and with no coarse aggregate visible.

* + - 1. PREPARATION
				1. Substrate must be structurally sound and free from grease, oil, dirt, dust, sealers, water repellents and other foreign materials which may interfere with proper bonding.
				2. Cracks must be repaired and all holes, voids, bee hives, etc. must be filled with suitable mortar or grout. They should be allowed to cure and scraped even with surface prior to application of MULASTICOAT waterproof membrane.
				3. Surface should be dry to touch prior to MULASTICOAT.
				4. New concrete should be aged a minimum of 7 to 20 days after pouring and at least 2 days after form removal before commencing applications.
				5. The entire substrate, including surface, should be in accordance with all applicable building codes.
			2. APPLICATION
				1. General: Comply with waterproofing manufacturer's written instructions for application and curing. May be applied before or after grouting.
				2. Coverage: MULASTICOAT — two coat coverage 40-50 sq. ft. per gallon (may vary because of differences in substrate porosity).SCRATCH KOTE 2000 — 150-200 sq. ft. per 65 lb bag.
				3. Apply first coat of MULASTICOAT firmly with an airless sprayer, hopper gun or a 3/4” to 1 1/4” nap roller. Cover entire surface area, including footing, extending to a minimum of 6” above grade line. Allow to dry a minimum of one hour prior to second coat application.
				4. Apply second coat with airless sprayer, hopper gun or roller cover. Be sure all pin-holes, voids, etc. are completely covered. Allow to dry to touch. (MULASTICOAT will change to a dark blue color when dry.)
				5. Apply finish coat of MULTICOAT SCRATCH KOTE 2000 with 3/4 to 11/4” roller cover or hopper gun. SCRATCH KOTE 2000, furnished in 65 lb bags, vigorously field mixed (to thoroughly disperse solids) with potable (clean) water in approximate amount of 2 to 2 1/2 gals per bag. Use MULTICOAT special mixing paddle, and margin trowel to clear vessel walls. Adjust consistency so applied material does not slump or stick to roller.
				6. One hour after application is completed, check to make sure that MULASTICOAT is completely covered (no blue should show).
				7. No protection board is required. Lastodrain or equivalent drainage system could be installed before back filling.
				8. DO NOT USE IF WALL IS SUBJECT TO NEGATIVE SIDE WATER OR WATER VAPOR PRESSURE.

END OF SECTION 071400