

SECTION 07 14 00

FLUID APPLIED WATERPROOFING

SECTION 09 96 00

SPECIALTY COATINGS

Multicoat Seamless Waterproofing System for Fountains & Ponds

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 waterproofing membrane systems. The MULTICOAT SEAMLESS WATERPROOFING SYSTEM FOR FOUNTAINS AND PONDS utilizes MULASTICOAT® which is a unique latex water-based coating that forms a seamless elastomeric waterproofing membrane combined with SCRATCH KOTE 2000® /POND KOTE which are resin modified cementitious coatings used as a bonding material under the MULASTICOAT® and also act as a protective barrier over the MULASTICOAT®

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 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.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and other Contract Documents, listed in the agreement between the Owner and Contractor, apply to this Section.

1.2 RELATED SECTIONS

- A. 03 01 30.71– Rehabilitation of cast-in-place Concrete
- B. 09 97 00 – Special Coatings

1.3 SUMMARY

- A. Section includes an elastomeric waterproofing membrane combined with resin modified cementitious top coating for underlayment applications.

1.4 SUBMITTALS

A. 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.

1.5 QUALITY ASSURANCE

A. 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.

B. Manufacturer Qualifications:

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

1.6 DELIVERY AND STORAGE

- A. Deliver, store off the ground and covered, handle and protect products from moisture in accordance with manufacturer's instructions.
- B. 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.
- C. Take necessary precautions to keep products clean, dry and free of damage.

1.7 WARRANTY

- A. Materials are guaranteed with respect to uniformity and quality within manufacturer's specifications.

1.8 PROJECT CONDITIONS

- A. Do not apply if substrate temperature is below 40°F or above 100°F, or if ambient temperature below 40°F above 100°F.
- B. Do not apply if precipitation is expected within a twenty four (24) hour period.
- C. Do not allow Mulasticoat to become wet or to be left exposed more than 2 days in extreme UV Ray areas.
- D. Do not use if substrate is subject to negative side water or water vapor pressure.
- E. Do not use on negative edge walls or vanishing edge walls.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Multicoat Corporation 23331 Antonio Parkway, Rancho Santa Margarita, CA 92688, 877-685-8426, Email: info@multicoat.com, www.multicoat.com

2.2 MATERIALS

A Multi-layer waterproofing system for fountains and ponds. It combines MULASTICOAT® which is a unique latex water-based coating that forms a seamless elastomeric waterproofing membrane, with SCRATCH KOTE 2000®/POND KOTE which are both resin modified cementitious coatings used as a bonding material under the MULASTICOAT® and also act as a protective barrier over the MULASTICOAT®

A. MULTICOAT MULASTICOAT Elastomeric Waterproofing Membrane

1. Tensile Strength & Elongation: 203 psi (ASTM-D2370)
2. Elongation: 1148% (ASTM2370)
3. Tensile Bond Adhesion, PSI: 162 Cohesive (ASTM C297)
4. Low Temperature Flexibility:

½”	Room Temp	Pass	(ASTM D522)
(Mandrel Bend)	1”	@ -5F	Pass
	½”	@ -5F	Pass
5. Static Hydrostatic Pressure Test: Pass >45psi (ASTM C1306)
6. Hydrostatic Head: 12” Water/Film @ 40mil Pass 96 hour/no effect

B. For Ponds: POND KOTE Polymer Modified Cementitious Coating

1. Color: Gray
2. Aggregate: Powder
3. Compressive Strength: 3128 psi @ at 28 days (Complies with ASTM C 109)
4. Flexural Strength: 1375 psi @ at 28 days (Complies with ASTM D 790)
5. Water %: 22.50%
6. Toxicity: Passed @ (96hr. LC50)*
7. Specific Gravity: 2.75

C. For Fountains: MULTICOAT SCRATCHKOTE 2000® Super bonding synthetic resin modified cementitious coating which forms a hard, rough textured base coat securely bonding to a 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: Passed 1000cyc-1000gms (ASTM-1242A)
7. 50-Cycle Freeze thaw: Passed (ASTM-C67)
8. Impact Resistance: MIL-D-3134F Passed

2.3 ACCESSORY MATERIALS

- A. 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.
- B. Fabric: Stitch Bond Polyester Fabric, 12” fabric furnished in a roll. Used in conjunction with MULASTICOAT to form flashing.
- C. Color Sealer: ACRATHANE COLORSEAL consists of a series of high quality waterbased modified resins that provide a high quality, durable seal on masonry, cementitious, and other building substrates. Colors are factory blended to insure uniformity.
- D. Water: Potable.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and adjoining construction, and conditions under which Work is to be installed. Do not proceed with Work until unsatisfactory conditions are corrected.
- B. Verify the following substrate conditions before application of waterproof lining:
 - 1. That substrate condition is satisfactory and in accordance with manufacturer's instructions.

3.2 PREPARATION

- A. 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.
- B. Shot Blasting or sand blasting may be necessary over some surfaces to achieve proper bonding.
- C. On concrete block or slump stone walls, all head and bed joints must be free of holes and finished flush with block substrate.
- D. For poured in place walls, a water-based form release must be used.
- E. If an oil base form release is used, it must be completely removed with tri sodium phosphate (TSP), power wash and rinse.
- F. Since MULASTICOAT® is a vapor barrier, substrate must be thoroughly dry before application to prevent gassing or bubbling.

3.3 APPLICATION

- A. General: Comply with waterproofing manufacturer's written instructions for application and curing.
- B. Coverage: MULASTICOAT: 80 to 100 sq. ft. per gallon. Stitch Bond Polyester Fabric: 12” x 324’ rolls. POND KOTE: 175 - 250 sq. ft. per bag. ACRATHANE COLORSEAL®: 200 - 300 sq. ft. per gallon. SCRATCHKOTE 2000®: 175 sq. ft. per bag.

- C. Large cracks should be filled with Multicoat SPEED MIX 2000® prior to application of SCRATCHKOTE 2000® or POND KOTE.
- D. Roll, brush or spray SCRATCHKOTE 2000® to entire substrate to be waterproofed at a coverage rate not to exceed 175 sq. ft. per bag and allow to dry overnight.
- E. All 90° angles, corners or protrusions in substrate should be caulked with a suitable caulk. Those areas should also have Multicoat stitchbond polyester fabric embedded into wet Mulasticoat.
- F. Gently hand-stir MULASTICOAT® and apply two coats at a coverage rate of 80 to 100 sq. ft. per gallon. Allow to dry between coats.
- G. Broadcast 16-20 silica sand onto second coat of MULASTICOAT® while still wet and allow to dry.
- H. Apply a coat of SCRATCHKOTE 2000® or POND KOTE and allow drying a minimum of 5 days before filling. Longer dry time will be required for interior applications.
- I. Optional Interior Finish: POND KOTE can be left as the final appearance. For a more color stable and uniform color appearance, Multicoat ACRATHANE COLORSEAL® can be used. Other finishes such as tile, plaster finishes, etc., can be used as the final visual covering.
- J. Mist final coat of SCRATCHKOTE 2000®/POND KOTE with water once daily during the 5 day curing period for best results.

END OF SECTION