

SECTION 03 01 30.71

REHABILITATION OF CAST-IN-PLACE CONCRETE

Multicoat SCRATCH KOTE 2000® - Pool & Spa Renovation

This guide specification has been prepared by Multicoat in printed and electronic media, as an aid to specifiers in preparing written construction documents for cementitious coatings. 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 pool, spa or pond substrate. MULTICOAT SCRATCH KOTE 2000® provides an ideal surface to which new pool plaster will firmly bond by both mechanical and chemical means. It is similar to gunitite in both appearance and function.

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. Section includes traffic coatings for the following applications:

1. Pool Decks
2. Pool Concrete Surfaces

1.2 RELATED SECTIONS

A. 09 97 00 – Special Coatings

1.3 SUMMARY

A. Section includes resin modified cement coating for external application to [concrete surfaces]

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.

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 Super bonding synthetic resin modified cementitious coating which forms a hard, rough textured base coat, securely bonding to a properly prepared pool, spa or pond substrate.

1. Product: MULTICOAT SCRATCH KOTE 2000®
2. Weatherometer: 2000 hrs. – Passed (ASTM G23)
3. Compressive Strength: 2595 psi @ 45 Days air cured - (ASTM C109)
4. Tensile Strength: 457 psi (ASTM-C190)
5. Bond Strength (Flatwise Tension): 225 psi (ASTM-C297)

6. Abrasion Test: 39 mil loss 1000cyc-1000gms (ASTM-1242A)
7. 50-Cycle Freeze thaw: Passed (ASTM-C67)
8. Impact Resistance: MIL-D-3134F Passed

2.3 ACCESSORY MATERIALS

- A. Water: Potable.
- B. MULTICOAT Mixing Paddle

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:
 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.

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. Check and completely remove all hollows and loose areas with picks and hammers.
- C. Chip out minimum 2 inches below tile line and around all water inlets, return lines and light fixtures.
- D. Sandblast, acid etch or water blast with a turbo nozzle or sand injection attachment (3,500 psi minimum). If acid etching, must neutralized and power wash with spinner tip. Make sure to remove all rust, algae, copper sulfate, soft flaky plaster, paint and other foreign matter
- E. Recheck for hollows, loose and flaky areas. Soft flaky areas must be removed before SCRATCH KOTE 2000® is applied.
- F. Wash thoroughly with water blaster and dry all areas to touch before proceeding.

3.3 APPLICATION

- A. General: Comply with waterproofing manufacturer's written instructions for application and curing.
 1. Field mix with potable (clean) water in the approximate amount of 1¾-2 gallons per bag, preferably with a special MULTICOAT Mixing Paddle. (More water may be needed depending upon ambient temperature.)

2. Mix vigorously to disperse all lumps and to thoroughly wet all particles. Suggest 1-1½ minutes after all dry material added. Use margin trowel to clear vessel sides.
 3. Let mixture stand for 3-5 minutes (depending on weather) and then add a small amount of water and re-break material. This will give additional pot life.
 4. Check for consistency by applying to a prepared vertical pool wall with hopper gun, pressure sprayer or ¾"-1¼" nap roller. Applied material should peak not slump
 5. If too thick small clumps will come away with roller. Add small amount of water, remix and retest. If material slumps add solids, remix and retest. Dampen pool substrate with water before application.
 6. Apply with ¾"-1¼" nap roller or spray to entire prepared surface. ALLOW TO CURE FOR A MINIMUM OF 24 HOURS BEFORE APPLYING POOL PLASTER – LONGER IN COOL WEATHER OR INDOOR APPLICATIONS – 48 to 72 HOURS IS IDEAL.
- B. Coverage: Each 65 lb. bag as described under “APPLICATION” in the MULTICOAT product data sheet will cover approximately 175-200 sq. ft. (rolled) or 250-350 sq. ft. (sprayed). Coverage will vary depending on porosity and condition of substrate.

END OF SECTION