



Product Data Sheet

STRONGCOTE 3 White Smooth Microtopping System

PRODUCT DESCRIPTION

Strongcote 3 White Smooth is a polymerized, two component, cementitious protective coating that can be applied over a variety of surfaces including concrete, masonry, metal, wood and tile. It consists of a unique rubber-like polymer liquid that is mixed with a proprietary cement and aggregate blend. Strongcote 3 is then applied in two or more coats by trowel, brush, roller, spray or squeegee to a typical thickness of 1/16" (16mm).

Designed for both exterior and interior use, Strongcote 3 restores and protects concrete surfaces from the consequences of exposure to water and chloride intrusion, freeze thaw damage and carbonation. It is an extremely durable, cost-effective protective coating that is "breathable" and allows for the transmission of inherent moisture vapor within concrete without blistering or delamination. By lowering moisture content within the concrete, Strongcote 3 helps reduce the potential for corrosion of steel reinforcement.

TYPICAL USES

- Concrete Restoration and Protection projects
- Resurfacing new concrete slabs that are flawed or discolored
- Parking decks, columns, walls and ceilings
- Bridge Parapets and Abutments
- Renovations to Stadiums and Arenas
- Resurfacing of balconies and breezeways
- Driveway and sidewalk resurfacing
- Pool decks and patios
- Building entrances and stairs
- Concrete and masonry water tank linings
- Decorative floor finishes and microtoppings

ADVANTAGES:

- Moisture vapor permeable – reduces potential for corrosion
- Protects against penetration of water, chlorides and CO2
- Ideal for exterior/interior, pedestrian and vehicular traffic
- Enhances appearance and curb appeal of concrete & masonry
- Excellent adhesion to most substrates
- Extensive choice of colors, textures and patterns

COVERAGE RATES

Theoretical coverage or yield per unit: 250 sq. ft. @ 1/16"
Actual consumption rates are dependent on many factors including, but not limited to, substrate texture and porosity, variations in applied thickness and normal allowance for waste..

PACKAGING AND COLORS

Liquid: 5-gallon pail
Powder: 50-pound bag (Smooth)

MIX RATIO

5 Gal SC 3 Liquid: 2 Bags of SC3 White Smooth Powder

SHELF LIFE AND STORAGE

Shelf life will be one year from the date of manufacture as long as containers remain unopened and when material is store in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)

Working Life 15-60 minutes (temperature dependent)
Recoat Time 1-4 hours or when dry
Open to Traffic 12 – 24 hours
Adhesion ASTM C-882, Type 1 515 psi
Tensile Strength ASTM C190 450 psi
Compressive Strength ASTM C109 2,440 psi
Water Vapor Permeability ASTM E96 1.96 perms/in
Water Absorption Weight gain of 4" coated concrete cube after 21 days water immersion (CMCH) <2%
Freeze-Thaw Resistance – 50 Cycles no scaling/peeling/flaking (Concrete cylinders immersed for 8 hrs in coated salt water solution followed by 16 hrs. of freezing).
Weathering ASTM G23 No visible degradation (Method I Procedure, 60 cycles)
Resistance to Wind Driven Rain
 Fed. Spec. TT-C-558 (8hrs)
 Fed. Spec. TT-C-0035 (24hrs)
 At 5" water pressure and 60 gal/hr water flow, no water or dampness noted on back of test panels.
Resistance to Hydrocarbon Substances ASTM D1308 (Spot Open Test) No softening or attack – after 21 days repeated re-application of gasoline, SAE-10 motor oil and jet fuel.
Impact Resistance MIL-D-3134, Para.4.7.3
 2 lb steel ball dropped from 8' height onto coated steel plate No cracking or detachment
Flammable Properties ASTM E84 Flame spread – 4
 Smoke Density – 0
Fire Resistance UL790Complies as Class A
Potable Water CompatibilityNSF/ANSI Compliant

OVERVIEW OF INSTALLATION STEPS:

Surface Preparation - All surfaces to be coated must be clean, sound and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of a CSP-3 or higher is required depending on overall substrate conditions and coating requirements. Concrete and other porous or absorptive substrates should be **(SSD) saturated surface dry** with no standing water at the time of the Strongcote 3 application to the substrate.

Mixing – SC 3 must be mixed mechanically using a low-speed drill with a “Jiffy-type” or similar Miracote-approved mixing paddle in a clean mixing container. Pre-mix SC 3 Liquid first to re-disperse any polymer solids that may have settled on the bottom of the pail.

If using a Strongcote Color pack, mix into the liquid (above) at a rate of one color pack per five-gallon pail of SC 3 liquid.

When mixing SC 3, always pour the liquid component into the mixing pail first and slowly add the powder component. The mix ratio of powder to liquid may be slightly modified depending on whether a slurry or trowel-grade consistency is desired. Thoroughly mix the SC 3 until a uniform smooth consistency is achieved that is free of lumps and pockets of dry powder.

Application – Strongcote 3 White Smooth can be applied using a roller, brush, broom, trowel, magic trowel, squeegee or spray equipment. Apply SC 3 only on properly prepared substrates, and be sure that all voids and bug holes are properly filled by working material into the substrate.

For Best Results

- Always install a minimum 4’ by 4’ test area or job site mock up for owner approval of acceptable color, texture, finish adhesion and any other critical requirements prior to proceeding with the installation.
- Verify that the most current versions of product data sheets, material safety data sheets (MSDS), and application guidelines are being utilized for project submittals and application reference.
- Protect materials at all times from excessive heat and cold.
- Regularly check wet film thickness with mil gauge and monitor product consumption to ensure correct application thicknesses are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Strongwall representatives are only for the purpose of making recommendations. Supervision and quality control are the sole responsibility of the user.

Measure surface and ambient temperatures to ensure that material is only applied when temperatures are 40 F (4.5 C) and rising during placement and cure time.

LIMITATIONS:

- Do not apply over moving cracks as they will reflect through.
- If sub-surface cracks after the coating has been applied, those cracks may also reflect through

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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