

**TopShot SELECT****TS-519 CERAMIC REFLECTIVE ACRYLIC COATING****BASIC USES & DESCRIPTION**

TS-519 TopShot SELECT Ceramic Reflectivity Acrylic is a ceramic-enhanced elastomeric acrylic roof coating designed to restore and protect compatible roofing systems while improving solar reflectivity and surface durability. Formulated with advanced acrylic resins and reflective ceramic particles, it creates a flexible waterproofing layer that helps reduce heat absorption and protect roofs from UV exposure and weathering.

TS-519 is designed for use in multi-coat acrylic restoration systems where reflective performance, flexibility, and long-term weather resistance are required. When installed as part of a properly prepared system, it forms a seamless, reflective membrane that helps extend roof service life while improving energy efficiency.

Ceramic Reflective Technology: Reflective ceramic particles improve solar reflectance and help reduce roof surface temperatures.

Flexible Elastomeric Protection: High-elongation acrylic film expands and contracts with roof movement to maintain long-term waterproofing.

Durable Multi-Surface Adhesion: Adheres to properly prepared metal, asphaltic, concrete, and previously coated roof substrates.

STORAGE:

For best results use within two (2) years of date of manufacture; store in unopened containers between 40 – 85 F (4 – 29 C).

Once the material is open, the curing process has begun, and the entire container should be used. Allow leftover material to solidify and dispose of according to local and state regulations.

CLEAN UP:

Clean equipment and overspray with water. Clean hands with waterless hand cleaner. Application tools and equipment can be cleaned with lukewarm water and soap, followed by a rinse of isopropanol, acetone, or Simple Green®. Recirculate the rinse through lines and gun until residual coating is removed. **DO NOT USE MINERAL SPIRITS, XYLENE, TOLUENE, OR VMP & NAPHTHA SOLVENTS.**

MAINTENANCE:

The life of the roof may be extended by regularly scheduled maintenance. A roof should typically be inspected at least twice a year. The roof immediately needs to be inspected following severe weather and extraordinary maintenance on roof-mounted equipment.

TEST PROPERTY	TEST VALUE
Color	White Liquid
Viscosity	15,000–20,000 cP
Elongation	300%
SRI	113
pH	9–10
Consistency	Semi-Thick
Solids in Weight	58–62%
Density	10.85 – 11.68 lbs per gallon
Solar Reflectance	0.89 (Initial) 0.67 (3-year)
Thermal Emittance	0.89 (Initial) 0.89 (Weathered)
Flash Point	Non-Flammable
Packaging	5 gallons & 55 gallons
*Coverage Rates (Smooth sloped substrate)	10 Year: 2.5 gal/sq *May vary according to roughness on substrate

WEATER RESTRICTIONS & CURE TIME:

It is recommended not to apply in temperatures less than 50 degrees or more than 104 degrees Fahrenheit; do not apply if rain is expected within four hours of application. If applied in lower temperatures, the cure time may be affected.

The coating can dry in 6–8 hours depending on variables such as temperature and humidity. A subsequent coat should be applied as soon as the previous one can safely be walked on.

PACKAGING SIZES:

TopShot SELECT is available in 55 gallon and 5 gallon containers.



**TopShot SELECT****TS-519 CERAMIC REFLECTIVE ACRYLIC COATING****COATING GUIDES**

Mixing: Coating separation may occur during storage. Mix freely.

Application: TopShot coatings are sunlight curing materials and should be applied on warm, sunny days for optimal results. Apply the coatings using a brush, roller, or airless sprayer. Evenly apply the first coat at a rate of 1.25 gallons per 100 square feet (24 wet mils). Allow the surface to dry for at least 4 hours before applying the next coat. Do not exceed 1.25 gallons per 100 square feet in a single application.

Recoat: Apply the second coat perpendicular to the first at the same rate of 1.25 gallons per 100 square feet (24 wet mils). For spray application or granulated substrates, back roll the second coating to prevent shading and voids. Allow the surface to dry for 16 to 24 hours. Inspect all areas and seams for insufficient coating thickness. If needed, apply additional coating at the specified rates.

Curing: All working and curing times are approximate and may vary based on humidity, ambient/surface temperatures, and application thickness.

Clean Up: Before the coating dries, clean hands, tools, and any spills with warm, soapy water. For cured material, use mineral spirits or citrus-based cleaners.

SPRAY APPLICATIONS

Equipment: Airless sprayers can significantly enhance productivity. The spray equipment should meet the following criteria:

Start-Up: Adjust the tip size according to current conditions. Hose length, ambient temperature, and material temperature can affect the spray pattern. To reduce applicator fatigue, install a wand extension with a 45° elbow at the tip. If the spray pattern is pulsating, reduce the size of the tip orifice to decrease the delivery volume of the material and increase pressure.

Precautions: For spray applications, TopShot Coatings should be pre-conditioned and maintained at or above 65°F. In windy conditions, use windbreaks, additional masking, and clear adjacent areas to protect from overspray. Spray application is not recommended when wind speeds exceed 15 mph.

Technique: Hold the spray tip roughly 12-24 inches above the substrate. Use a half-lap technique, overlapping each spray pass by 50% to ensure uniform coverage. On vertical surfaces, take care not to apply material too thickly, as this can cause runs or sags. Always verify coating thickness during application with a wet mil gauge.

CRITERIA	QUANTITY
Pump Fluid to Air Ratio	30:1
Minimum Pump Pressure	3000 PSI
Output	2.5 gal/min
Spray Run	3000 PSI
Minimum Tip Orifice	0.027 – 0.039 inch
Tip Fan Angle	40° – 50°
Hose: Inside Diameter / Length	3/8" – 75 ft 1/2" – 200 ft 3/4" – 200 ft

FLASHING DETAILS

Flashing/Penetrations: All penetrations, laps, flashing, joints, transitions, and fasteners must be sealed with approved TopShot Mastic prior to coating.

Slope/Drainage: Roof seams are a common source of leaks. Ensuring that all seams are tight and free from moisture prior to the application of approved TopShot mastic.

LIMITED WARRANTY:

Available warranties include Full System Limited Warranties that range from 5 to 20 years. For warranty details, contact your Kool Coats representative.

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