



KNIGHTSHIELD

KS-5300 Anti-Graffiti Protective Coating

DESCRIPTION

KNIGHTSHIELD KS-5300 low VOC, non-sacrificial, anti-graffiti coating is a translucent, semi-gloss, one coat anti-graffiti coating. KNIGHTSHIELD KS-5300 forms chemical bonds with cementitious surfaces to enhance adhesion properties without the need for abrasive blasting, priming or extensive site preparation.

Due to the hydrophobicity of the coating, most graffiti can easily be removed. For best results, graffiti should be removed from KNIGHTSHIELD KS-5300 using a cold-water pressure washer at 1200 psi.

USES

KNIGHTSHIELD KS-5300 is suitable for use over metal, concrete, brick, stone, wood, fiberglass and pre-existing coatings. This single component, neutral pH, moisture cure silicone product provides excellent durability and long service life. It can easily be applied using brush, roller or airless sprayer equipment.

FEATURES/BENEFITS

- Low VOC formulation – can be used in strict VOC regulated areas, including SCAQMD
- Can be used on a variety of surfaces
- Provides excellent durability and long service life

PACKAGING

1 Gal. (3.8 L Cans) (2 Cans/Carton)
 5 Gal. (18.9 L) Pails
 55 Gal. (208.2 L) Drums

SHELF LIFE

Twelve months from date of manufacture in the original, unopened container stored below 90° F (32° C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat or ignition.

APPLICATION

Surface Preparation ... All surfaces to be coated must be clean, dry and frost-free. Although no primer is needed prior to applying KNIGHTSHIELD KS-5300 to most common substrates, it is recommended to conduct a quick field adhesion test prior to application.

Mixing ... Mix with an air-powered agitator (300 – 400 rpm) for a minimum of five minutes to ensure an even consistency of coating is obtained without air in suspension.

Application Method ... The coating should be applied in a manner that prevents runs, sags, drips, spills, etc. and that completely covers surfaces without gaps. The temperature of the surface to be coated should be 32° - 120° F (2° - 49° C) and environmental and substrate temperature should be at least 5° F (3° C) above the dew point prior to and during application.

When working in high humidity and/or high temperature environments, it is recommended to use a pail lid adapter fitted with an agitator. This will prevent the product from skinning over and curing in the pail during application.

Apply by airless sprayer. Brush or roller are also suitable methods of application for small surface areas. Apply at a rate that will achieve a minimum of five wet mils.

COVERAGE RATE

Wet Film Thickness	Square Feet/Gallon
10 mils	160

Coverage may vary due to substrate type and surface porosity.

CONTINUED ON REVERSE SIDE ...



TECHNICAL DATA

Gloss Level	Semi-gloss
Volume Solids	94%
VOC Content	46 g/L
Uncured	
Viscosity	2,000 ± 1,000 cP
Cure System	Neutral pH, moisture cure
Cured At Standard Conditions* for 7 Days	
Durometer Hardness (ASTM D2240, Shore A)	33 points
Tensile Strength (ASTM D412)	100 psi (7 kg/cm ²)
Elongation at Break (ASTM D412)	100%
Temperature Stability Continuous	-76° to 392°F (-60° to 200° C)

Drying Time

Skin-over Time	45 minutes*
Tack-free Time	60 - 90 minutes
Cure Through	4 - 6 hours
Full Physical Characteristics	7 days

At standard conditions [77° F (25° C) and 50% relative humidity – 10 mils wet film thickness]

*At temperatures of 70° F (21.1° C) or higher and RH of 50% or higher

Graffiti Removal ... For best results, graffiti should be removed from the KNIGHTSHIELD KS-5300 coating using a cold-water pressure washer at 1200 psi. In the instance that graffiti is stubborn to remove with cold water, then a heated pressure wash may be necessary.

In the extremely rare instance that stubborn graffiti media (specialty paints with adhesion primers that have been left to cure for extended periods of time) is not removed 100% with warm water, apply a biodegradable surfactant (dish soap) with a cleaning pad and rinse off immediately.

Note: Before applying cleaner to the coating, test a small patch in an inconspicuous area. Contact W. R. MEADOWS for information and/or recommendations on which cleaners are most suitable for specific problems.

Cleanup ... Tools, etc. can be cleaned with naphtha or odorless mineral spirits. Do not allow material to remain in hoses, gun, or sprayer equipment.

LIMITATIONS/PRECAUTIONS

Do not thin product. Work stoppages are not recommended with only partial utilization of a container. If work must stop after only a portion of a container is used, seal to minimize air and moisture contact with the coating by covering the surface of the coating with a sheet of polyethylene film, then reseal the container to be airtight.

Upon reopening the container to restart work, peel back the polyethylene film. If curing of the coating has occurred, use a utility knife to cut the cured coating away from the wall of the container. Peel away the cured layer of coating to expose fresh coating underneath.

Surface finish is dependent on application method. Avoid using a combination of application methods whenever possible. Superior aesthetic appearance will be obtained with airless sprayer application. Condensation occurring during or immediately following application may result in gloss reduction. If over coating KNIGHTSHIELD KS-5300, ensure the coating is fully cleaned to remove all surface contamination such as dust, grease, oil, salt crystals, traffic fumes, etc. before application of a new coat.

Do not apply to substrate temperatures below 35° F (2° C). When applying in confined spaces, ensure adequate ventilation and/or respiratory equipment is available.

KNIGHTSHIELD KS-5300 has excellent tolerance to airborne chemical exposure. When severe chemical or solvent splashing/pooling is likely to occur, please contact W. R. MEADOWS for information regarding suitability.

This product is intended for use only by professional applicators in industrial situations

For most recent data sheet, LEED information, and SDS, visit www.wrmeadows.com.



LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.