

Si-COAT® 528™

Remarkable® Low VOC Anti-Graffiti Protective Coating - Pigmented Technical Data Sheet

INTRODUCTION

Si-COAT® 528™ Remarkable® Low VOC (Volatile Organic Compound) Anti-Graffiti Protective Coating is a permanent (non-sacrificial) one coat anti-graffiti protective coating. It is available in a variety of colors, and dries to a semi-gloss finish. It is suitable for use over metal, concrete, brick, stone, wood, fiberglass and pre-existing coatings. Si-COAT® 528™ meets the VOC limits set out by California's South Coast Air Quality Management District (SCAQMD) for reduced environmental impact. This single component, room temperature vulcanizing (RTV), moisture cure polysiloxane anti-graffiti protective coating provides excellent durability and long service life. It can easily be applied using brush, roller or airless spray equipment.

As a result of its specific chemistry, Si-COAT® 528™ Remarkable® Low VOC forms chemical bonds with the host surface to enhance adhesion properties without the need for abrasive blasting, priming, and extensive site preparation.

Due to the hydrophobicity of the coating, most graffiti-tagging can easily be removed from protected surfaces using water under low pressure. For best results, graffiti tagging should be removed from the Si-COAT® 528™ coating as soon as possible using a cold water pressure washer at 1200 psi.

PRODUCT CHARACTERISTICS AND PRACTICAL INFORMATION

Gloss Level	Semi-Gloss
Volume Solids	92%
VOC	70 g/liter
Typical Thickness	7 ± 2 mil (127 to 229 micron) dry film thickness (DFT).
Application Rate	5 to 10 mil (138 to 248 microns) wet film thickness (WFT).

Approximate Theoretical Coverage

DFT	5 mils (127 µ)	9 mils (229 µ)
sq. ft/US gal	295	164
sq. m/L	7.2	4

Allow appropriate loss factor:

Practical Coverage = Theoretical Coverage x [100% - Loss%].
Coverage will vary with the substrate and porosity of surface.

Method of Application: Airless spray, brush or roller

Application Temperature Range: 41 to 140°F (5 to 60°C) [ambient]

Drying Time:

Skin-over Time	50-60 minutes*
Tack-free Time	80 minutes*
Cure Through	4 to 6 hours*
Full Physical Characteristics	7 days*

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

REGULATORY DATA

Flash Point	190°F (88°C) minimum
VOC	0.58 lb/US gallon (70 g/liter)

PHYSICAL PROPERTIES

(Typical properties - values not to be used as specifications)

Uncured	
Appearance	Thick Paint
Viscosity	2,000 ± 1,000 cP
Cure System	Neutral, moisture cure
Cured At Standard Conditions* for 7 Days	
Durometer Hardness (ASTM D2240, Shore A)	55 points
Tensile Strength (ASTM D412)	466 psi (33 kg/cm ²)
Elongation at Break (ASTM D412)	100%
Temperature Stability	Continuous: -76 to 392°F (-60 to 200°C)

*At standard conditions 77°F (25° C) and 50% relative humidity

COLORS

Si-COAT® 528™ is available in Ansi #70 Grey, Off White, Florida Blue, Galvanic Metallic, Darker Grey, Middlestone Beige, Black, Azure Blue, Tank White, Desert Sand, Enmax Green, Blue Steel, Tan, Silk Grey, Quick Silver, Forest Green, Red Brown, Red Brick, Cloud Grey, and Cream White. Other colors are available; please contact CSL Silicones for color assistance. **All available colors are tested to withstand 5000 hours of Accelerated Weathering Testing (QUV).**

SURFACE PREPARATION & CLEANLINESS*

*Please also reference Si-COAT® AG Technical Bulletin "Application & Risk Assessment Guide" for full details. All surfaces to be coated should be free of dirt, dust, chalking paint, mortar spatter, all loose rust, all loose mill scale, old caulking, grease, oil, release agents, curing compounds, laitance and other foreign matter including frost.

In order to achieve the above conditions, the suggested surface preparation standards are SSPC-SP2 (hand tool cleaning), SSPC-SP3 (power tool cleaning) or SSPC-SP12/NACE No. 5 (water jetting/blasting).

For surfaces prepared by water jetting/blasting, the SSPC-VIS 4(I)/NACE No. 7 standards for surface cleanliness should be followed.

The visual surface cleanliness must conform, at minimum, to the Vis WJ-4 condition directly after water jetting/blasting.

Non-visual surface cleanliness must conform, at minimum, to the SC-2 condition with a provision for up to 7 ppm (10 µg/cm²) chloride contamination. Soluble ferrous ion levels should be below 7 ppm (10 µg/cm²) and sulfate contamination less than 12 ppm (17 µg/cm²).

Flash rusting may occur after water jetting/blasting. As per the SSPC-VIS 4(I)/NACE No. 7 standard, the maximum flash rusting condition tolerable is L (light flash rusting that is evenly distributed or in patches, very tightly adherent and not heavy enough to mark objects rubbed/brushed against it).



COATING APPLICATION

Mixing: Si-COAT® AG is supplied as a one-part coating (no component mixing necessary). **Mix by an air powered agitator (300 – 400 rpm) for a minimum of 5 minutes**, to ensure an even consistency of coating is obtained without air in suspension.

Application: All surfaces should be clean and dry prior to application. The coating should be applied in a manner that prevents runs, sags, drips, spills, etc. and that completely covers surfaces without holidays (gaps). The temperature of the surface to be coated should be between 41 and 140°F (5 and 60°C) and environmental temperature should be at least 5°F (3°C) above the dew point prior to and during application.

When working with Si-COAT® AG 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.

It is recommended that Si-COAT® AG is applied using an airless sprayer; however, brush, or roller are also suitable methods of application for small surface areas. It is necessary to apply at a rate that will achieve a minimum of 5 mils (127µ) DFT. Roller and brush application will require multiple coats to achieve desired DFT even if the coverage is adequate.

Graffiti Removal: For best results, graffiti tagging should be removed from the Si-COAT® AG coating as soon as possible using a cold water pressure washer at 1200 psi. In the instance that graffiti has been left on for a longer time period (greater than 10 days) and is stubborn to remove with cold water then a warm water 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 then 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 CSL Silicones Inc. for information and/or recommendations on which cleaners are most suitable for specific problems.

Thinner: Not recommended.

Cleaner: Naphtha or Odorless Mineral Spirits.

Work Stoppages & Restarts: Work stoppages are not recommended with only partial utilization of a container of Si-COAT® AG. If work must stop after only a portion of a container of Si-COAT® AG 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.

Clean-up: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with Si-COAT equipment cleaner, naphtha or mineral spirits.

Fully cured coating is environmentally benign (will not harm) and is suitable for landfill disposal. However, always check local environmental regulations before disposal.

PRODUCT CHARACTERISTICS

Surface finish is dependent on application method. Avoid using a combination of application methods whenever possible. Superior aesthetic appearance will be obtained with airless spray application.

If over coating Si-COAT® AG after prolonged weathering or ageing, 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 further coat of Si-COAT® AG.

Do not apply to substrate temperatures below 41°F (5°C). When applying Si-COAT® AG in confined spaces ensure adequate ventilation and/or respiratory equipment is available. Consult the Si-COAT® 528™ SDS for further details.

Si-COAT® AG has excellent tolerance to airborne chemical exposure. When severe chemical or solvent splashing/pooling is likely to occur please contact CSL Silicones Inc. for information regarding suitability.

SYSTEMS COMPATIBILITY

Although no primer is needed prior to applying Si-COAT® AG to most common substrates, it is recommended to do a quick field adhesion test prior to application.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given in this document. See Safety Data Sheet (SDS) and the container(s).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards & regulations.

PACKAGING

Size (unit)	Product Volume	Net Weight	Shipping Weight
1 US gal	1.0 US gal (3.8 l)	11.2 lb (5.1 kg)	11.9 lb (5.4 kg)
5 US gal	5.0 US gal (18.9l)	55.3 lb (25.1kg)	59.3 lb (26.9 kg)

STORAGE

Shelf Life: 18 months from date of manufacture in the original unopened container at 90°F (32°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat or ignition.

CSL is ISO 9001:2008 Registered

Disclaimer

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