



General Industrial Coatings

CC-M35

MIL-PRF-14105E, Type I 1K Silicone, 3.5 Lbs./Gal. VOC Heat Resisting Coating

Green 383, 34094.....C71G8 Black, 37030..... C71B6

DESCRIPTION

MIL-PRF-14105E, Type I coatings are single component, 3.5 lbs./gal. *VOC, VOHAP free compliant, heat resisting silicone coatings for military equipment. They can withstand severe thermal cycling to 1400° F. They have the unique ability to be ambient dried as well as the more traditional heat cured.

Advantages:

- Meets all the performance properties of MIL-PRF-14105E, Type I
- Single component
- Can be shipped within 24 hours in an ambient dry state
- Ability to be applied direct to steel surfaces
- Complies with 3.5 *VOC solvent emissions
- VOHAP free
- Free of lead and chromate hazards

The following MIL-PRF-14105E, Type I products are approved by the U.S. Army Research Lab, Aberdeen Proving Grounds, Aberdeen, MD:

Sherwin-Williams	QPD
C71B6	Q2212

* VOC Compliance limits vary from state to state; please consult local Air Quality rules and regulations.

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.PaintDocs.Com.

CHARACTERISTICS

60° Gloss: 18.0 units max.

Volume Solids: 47.5 ± 2 %

Viscosity (at 77° F): 65-85 Krebs Units

Recommended Film Thickness:
Mils Wet 4.5-5.5
Mils Dry 2.0-2.5

Spreading Rate: (no application loss):
383 ft.²/gal. at 2.0 mil DFT

Cure:
Air Dry
Force Dry 60 mins. at 400° F

Drying: 2.0 mils DFT at 77° F, 50% RH
Tack-Free 1 hour
To Handle 24 hours
Total (Air Dry Properties) 7-10 days

***Ambient Dry Disclaimer:** The coating will cure when the coated equipment is placed into service. For optimum hardness, a heat cure of 400°F for 60 minutes is needed.

Shake products well before using.

Potlife (at 77° F): *8 hours

***Potlife Disclaimer:** Potlife listed applies to containers which have been opened & exposed to air.

Flash Point: 95° F
(Pensky Martens Closed Cup)

Air Quality Data:

Photochemically Reactive
Volatile Organic Compounds
(VOC, less exempt solvents, maximum):
3.50 lbs./gal., 420 g/L

Recommended Storage: Inside, sealed container, 40-120° F, no freeze hazard. Protect from moisture.

Package Life: 12 months, unopened
Inside storage

SPECIFICATIONS

CLEANING & PRETREATMENTS

Follow the most current revisions of MIL-DTL-53072 and/or TT-C-490 for required cleaning and pretreatment application before coating.

Note: See the current MIL-DTL-53072 for complete details regarding substrate preparation, coatings, and application.

General: All substrates should be free of mold release, oil, grease, dirt, fingerprints, drawing compounds, surface passivation treatments and any other contaminants to ensure optimum adhesion and coating performance. Steel surfaces should be sandblasted or mechanically wire brushed to remove rust, oil, grease, or other contamination. A low-profile white metal blast is preferred, as it will give best results. This is a recommended best practice in areas where higher service temperatures are anticipated.

Testing: The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility, and performance prior to full scale application.

APPLICATION

Typical Setups

The paint must be shaken for a minimum of 15 minutes prior to use. This ensures that the product is homogenous for application.

For all application and usage guidelines, please consult and review the MIL-DTL-53072 & TT-C-490 specifications as well as your local Sherwin-Williams representative.

Cleanup: Clean tools & equipment immediately after use with R6K9 (Acetone), R6K10 (MEK), R6K16 (MIBK), R6K30 (MAK), R6K38 (Tertiary Butyl Acetate), or PCBTf.

Follow manufacturer's safety recommendations when using any solvent.

PRODUCT LIMITATIONS

1. This product must be properly agitated before using. Material agitation should be followed throughout application to maintain its homogenous state
2. Surface preparation is important for coating performance.
3. Do not apply a heavier film than specified, as the coating may blister when heat is applied.
4. Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.
5. On sandblasted surfaces, apply sufficient film thickness to fully protect the blast profile. This is typically a dry film thickness of 2.0 mils more than the blast profile.

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CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review the product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or www.PaintDocs.Com.

Please direct any questions or comments to your local Sherwin-Williams facility.

Note:

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