



Goldstone™ 6, 79, 710 & 6HS

Heavy Duty, High Reflectance, Microwave Antenna Coating

SELECTION DATA

DESCRIPTION:

Goldstone is a specially formulated coating designed to have high infrared radiation reflectance. It is formulated for the NASA Deep Space Instrumentation Facilities (DSIF) to protect microwave antennas from heat accumulation. This coating is also used to protect large dish telescopes and radio receivers. **Goldstone** is intended for spray and brush application. It is designed for HVLP air spray and HVLP air assisted airless systems but, where legal, it can be applied with conventional or airless systems.

USE:

Goldstone typical applications include; microwave antenna dishes, radio receivers, large dish telescopes or where a high infrared diffused reflection is needed.

ADVANTAGES:

- Meets 500 g/l VOC as applied.
- **6HS** meets 340 g/l VOC as applied.
- High infrared diffusion properties reduced surface temperature.
- When used as a complete Triangle system, it does not distort or obstruct transmission and receiving signals.

LIMITATIONS:

- When applied, may not meet local air quality regulations. **Goldstone 6HS** is available which meets 340 g/l.

PHYSICAL PROPERTIES

VOC: [as packaged] #6 #6HS
grams/liter 462 353
pounds/gallon 3.86 2.94

APPEARANCE:

 [Gloss at 60°]

Flat (F) 1 – 3
Semigloss (S) 70 – 75
Gloss (G) 80 – 90

WEIGHT PER GALLON: 11.8 13.3 lbs.

FLASH POINT: [setaflash] 108° F.

PACKAGE VISCOSITY: 79 97 ± 3 KU

SOLIDS:

 [average]

By Weight 67 78 ± 2%
By Volume 46 59 ± 2%

DRY FILM COVERAGE:

 [in square feet per gallon]

Theoretical at 1 mil 738 946
Theoretical at 1.5 mils 490 630
Required Minimum DFT 1.5 mils

DRY SCHEDULE:

 [at 50% RH and 1.5 mils DFT]

	45° F.	60° F.	75° F.	90° F.
Tack Dry	5 hrs.	2 hrs.	1 hrs.	45 mins.
Dry to Touch	8½ hrs.	5 hrs.	3 hrs.	2 hrs.
Dry to Handle	12 hrs.	8 hrs.	6 hrs.	5 hrs.
Hard Cure	48 hrs.	30 hrs.	24 hrs.	24 hrs.
Min. Recoat	36 hrs.	20 hrs.	12 hrs.	10 hrs.
Max. Recoat*	8 wks.	6 wks.	4 wks.	4 wks.

*After Maximum Recoat Time sanding is required for recoat.

ORDER NUMBER AND COLOR:

6 Flat White
6HS High Solids Flat White
710 Semi-Gloss White
79 Gloss White

COLOR AVAILABILITY:

The **Goldstone** series is packed as White. It accepts #888 Colortrend Universal Colorants but is not amenable to normal store or field tinting. Any color can be made with 25 gallon minimum order.

PACKAGING:

 [average]

Four ea. 1 gallon cans per case [truck] 50 lbs.
One ea. 5 gallon metal pail 60 lbs.

Continued

TRIANGLE COATINGS, INC.

Tel: 510-895-8000

800-895-8000

Fax: 510-895-8800

www.tricoat.com

TRIANGLE™



Goldstone™ 6, 79, 710 & 6HS

Heavy Duty, High Reflectance, Microwave Antenna Coating

APPLICATION DATA

SURFACE PREPARATION AND PRIMERS:

All substrates must be dry and in sound condition. Remove oil, dust, loose rust, peeling paint or other contamination to ensure good adhesion.

Aluminum: Remove all oil, grease, dirt, oxide and other foreign material by solvent cleaning per SSPC-SP1. Apply one coat of Triangle Coatings' 994P Vinyl Wash Primer followed by one coat of Triangle Coatings' 900P Envirotech Primer.

Steel and Iron: For maximum durability of paint system, prepare the steel for painting in accordance with SSPC-SP6, Commercial Blast Cleaning. Minimum surface preparation should be no less than SSPC-SP2, Hand Tool Cleaning or SSPC-SP3, Power Tool Cleaning. If total rust removal is not possible use Triangle's AK8, Rust Converter. On smooth metal, etching the surface is necessary. The use of iron phosphate preparation will enhance the adhesion of topcoat or primer to most metal surfaces.

Galvanized Metal: Allow to weather a minimum of 6 months prior to coating, solvent clean per SSPC-SP1 and prime with 945P series AquaPrime primer. When weathering is not possible or the surface has been treated with chromates or silicates, first solvent clean per SSPC-SP1 and apply a coat of 945P series primer to the area. Allow paint to dry 1 week before testing adhesion. If adhesion is poor, brush blasting is necessary to remove these treatments. Rusty galvanizing requires a minimum of hand tool cleaning per SSPC-SP2.

Previously Coated: If in sound condition, clean the surface of all foreign material. Apply a test patch to assure compatibility to the previous coating. Spot prime bare areas. If previous paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface.

RECOMMENDED THINNING:

In 340 g/l VOC regulated areas, **6HS** should be used. **6HS** can not be thinned by regulation.

Maximum thinning for 6, 79 & 710 by regulation:

500 g/l VOC Thin up to 12 fl.oz./gal.

Thinner: (slower) Mineral Spirits

Thinner: (faster) Xylol

Brush: Thin as necessary

Airless Spray: Thinning is not necessary

Conventional Spray: Thin as necessary

APPLICATION METHOD:

This coating may be applied by brush, conventional spray or airless spray application methods. Agitate this product for 5 to 10 minutes in a paint shaker prior to use.

TIP SELECTION:

High Volume Low Pressure Air Assisted Airless:

Use fluid tip size011 - .013

Paint fluid pressure 600 - 650 psi

Air pressure to gun 75 - 80 psi

Aircap pressure 10 psi maximum

Conventional Air Spray:

Use fluid tip size055 - .060

Paint fluid pressure 10 - 15 psi

Aircap pressure 50 - 65 psi

High Volume Low Pressure Conventional Air:

Use fluid tip size055 - .060

Paint fluid pressure 10 - 15 psi

Air pressure to gun 65 - 80 psi

Aircap pressure 10 psi maximum

Conventional Airless

Use carbide fluid tip size .011-.015 @ 1800 psi.

Electrostatic Equipment:

Consult Triangle representative.

CLEANUP SOLVENT: Wash Lacquer Thinner

SAFETY AND HANDLING

FLASH POINT: [setaflash] 108° F. (42° C.)

SHIPPING DESCRIPTION: [CFR 49].

Domestic Ground: Not regulated

Air/Vessel: Paint, 3, UN1263, PG III

Required Label: FLAMMABLE LIQUID

Required Marking: PAINT UN1263

IMDG PACKAGING:

FLAMMABLE LIQUID, class 3.3, UN1263, III

IMDG STOWAGE: Category A

UNIFORM FIRE CODE: [CFR 29] CLASS II

STORAGE TEMPERATURE: 120° F. max.

SHELF LIFE: [warranted] 1 Year

"HMIS" RATINGS: H - 2; F - 2; R - 0; PP - H

(06/11/02)

WARRANTY: The statements made herein, on labels, product bulletins, or by any of Triangle Coatings', Inc. employees or agents concerning this product are given for general information only. Due to variables beyond Triangle's control in application, surface preparation, surface temperature, humidity and other variable factors Triangle assumes no liability for any claim that may arise out of the use of its products and disclaims any warranty expressed or implied relating to the storage, application, thinning, merchantability, Buyer's assumption of performance, and the fitness for a particular purpose. Receipt of products from Triangle or its agents constitutes acceptance of the terms of this warranty. In the event that Triangle finds that the product delivered is not of Triangle's standard quality, Triangle will at its sole discretion, either replace the product or refund the purchase price. Triangle's choice of one of these remedies shall be the Buyer's sole remedy. Triangle will under no circumstances be liable for consequential damages, except insofar as liability is mandated by law. Triangle will deliver products at agreed times insofar as it is reasonably able to do so, but it will not be liable for failure to deliver on time when the failure is beyond its reasonable control.