

TRIANGLE INDUSTRIAL

Goldstone™

Ultra Low VOC Compliant Water Based Topcoat

SPECIFICATIONS

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.

USE:

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

ADVANTAGES:

- Ultra low VOC
- High infrared diffusion properties reduce surface temperatures
- When used as a complete Triangle system, it does not distort or obstruct transmission and receiving signals
- Extremely smooth surface
- Direct to metal
- Fast dry, comparable to solvent systems
- Eliminates solvent disposal and reduces overall cost

LIMITATIONS:

- Surface temperature must be below 90°F and above 40°F for proper application

PROPERTIES

VOC: [as packaged] 50 g/l – (0.42 lbs/gal)

FLASH POINT: [setaflash] >250 ° F

APPEARANCE: [Gloss @ 60°]

Flat (F) 0-3

WEIGHT PER GALLON: [average] 11.88 lbs

PACKAGE VISCOSITY: 100 ± 10 KU

SOLIDS: [average]

By Weight 62 ± 5%

By Volume 46 ± 5%

COVERAGE: [average]

Theoretical at 1.5 mils DFT 491 sq ft/gal

Recommended DFT 1.5 - 2.0 mils

DRY SCHEDULE: [at 50% RH and 1.5 mils DFT]

	45° F	60° F	75° F	85° F
Dry to Touch	2 hrs	1 hrs	30 mins	15 mins
Handle/Recoat	6 hrs	4 hrs	2 hrs	1 hrs
Full Cure	7 days	7 days	7 days	7 days

REFLECTANCE DATA:

Solar Reflectance 0.84

IR Emittance 0.91

Solar Index 106

COLOR AVAILABILITY:

Goldstone is available as white. Many colors may be tinted, however, special costing will be applied.

ORDER CODE: 7

PACKAGING:

Four 1 gallon cans per case

5 gallon pails

55 gallon drums

Goldstone™**Ultra Low VOC Compliant Water Based Topcoat****APPLICATION DATA****SURFACE PREPARATION:**

Abrasive blast cleaned surfaces shall be tested by the Contractor for soluble salts using a Class A or B retrieval method as described in Technology Guide 15, "Field Methods for Retrieval and Analysis of Soluble Salts on Steel and Other Nonporous Substrates," of the "SSPC: The Society of Protective Coatings," and cleaned so the maximum level of soluble salts does not exceed the 10 micrograms per square centimeter.

Areas of abrasive blast cleaned steel shall be tested at the rate of 3 tests for the first 1,000 square feet prepared per day, and one test for each additional 1,000 square feet or portion thereof, at locations selected by the Engineer. When less than 1,000 square feet of surface area is prepared in a shift, at least 2 tests shall be performed. Additionally, the use of a chemical conversion coating will further enhance corrosion protection.

Surfaces to be coated must be clean, dry, and free of oil, grease, dust, flaky rust, mill scale, and other foreign matter that could interfere with adhesion.

Both surface temperature and ambient temperatures must be above 50° F and remain above 50° F for four hours after application.

APPLICABLE SUBSTRATES:

- Direct to Ferrous or Nonferrous
- Galvanized
- Aluminum and aluminum alloys
- Properly prepared concrete

RECOMMENDED PRIMERS:

- 283P609 Aquapoxy

Consult your Triangle Coatings representative for other primer recommendations.

APPLICATION:

Apply **Goldstone** using HVLP, air-assisted airless, airless, or brush and roll.

HVLP:

Fluid Tip and Needle:045 - .055" stainless steel
 Fluid Pressure: 10 - 15 psi
 Fluid Pressure: 60 psi
 Pressure pot application is recommended
 (stainless or aluminum)

Air Assist Airless:

Fluid Tip:017"
 Fluid pressure: 800 - 1,200 psi
 Air Cap Pressure: 8 - 10 psi

Airless:

Fluid Tip:018 - .021"
 Fluid Pressure: 1,900 - 2,100 psi

RETDARDING SOLVENT:AT-74

Use for temperatures over 95° F.

THINNING: potable water

Air Assist Airless: 10% max by volume

HVLP: 10 - 15% max by volume

CLEANUP: water

Clean wet tools with water.

HEALTH & SAFETY PRECAUTIONS**CAUTION:**

LIQUID CONTACT WITH EYE AND SKIN CAUSES IRRITATION. DO NOT INGEST. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using and before eating and smoking. Keep container closed when not in use. If spillage occurs, absorb and dispose of according to local regulations.

FIRST AID:

Should eye contact occur, flush with plenty of water for at least 15 minutes and get medical attention if vision is disturbed. For skin, wash thoroughly with soap and water. If swallowed, seek medical attention immediately. DO NOT induce vomiting.

**THIS PRODUCT IS FOR
PROFESSIONAL USE ONLY.**

**KEEP THIS PRODUCT OUT OF THE
REACH OF CHILDREN.**

SHIPPING & HANDLING**SHIPPING DESCRIPTION:** [CFR 49]

Ground, Air, Vessel Non Regulated Material
 Required Label & Marking Not Required

IMDG PACKAGING: Not Required

IMDG STOWAGE: Not Regulated

UNIFORM FIRE CODE: [CFR 29] Non Combustible

STORAGE TEMPERATURE: 35° - 120° F max

SHELF LIFE: [warranted] 6 MONTHS

HMIS RATINGS: H - 1; F - 0; R - 0; PP - H

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Product Data Sheets are periodically updated to reflect new information relating to the product. It is important to obtain the most recent Product Data Sheet for the product being used before application.

SPC7-14/07-004