

**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:** ..... 85 KU

**SOLIDS:** [average]

By Weight ..... 62 ± 10%

By Volume ..... 45 ± 10%

**COVERAGE:** [average]

Theoretical at 1.5 mils DFT ..... 488 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
<b>Dry to Touch</b>	2 hrs	1 hrs	30 mins	15 mins
<b>Handle/Recoat</b>	6 hrs	4 hrs	2 hrs	1 hrs
<b>Full Cure</b>	7 days	7 days	7 days	7 days

After 1 week, light sanding may be necessary if cured coating is subject to exterior exposure for extended periods.

**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: ..... .015 - .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

**RETARDING SOLVENT:** ..... AT-74  
 Use for temperatures over 95° F.

**THINNING:** ..... none

**CLEANUP:** ..... water  
 Clean wet tools with water.

### Health & Safety

#### 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

**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. SPC7-09/08-002