

# S-1023 Silicone Coating

**Dyna Therm**

**Technical Bulletin  
December, 2002**

**PRODUCT DESCRIPTION** meets STM-K-797, DPM 8046 - STM 0705

Flamemaster S-1023 is a white, high temperature resistant, room temperature curing silicone coating. Manufactured at sprayable viscosity, S-1023 possesses definite emittance and absorbance characteristics which qualify it for use as an external coating on launch vehicles and payload shrouds.

### **SURFACE PREPARATION**

All surfaces to be coated with Flamemaster S-1023 should be free of contamination of any kind including dust, oils and grease, and residues of previously applied materials. Once the surface has been cleaned, wipe it once more with a clean cloth dipped in a fast drying solvent such as toluene or methyl ethyl ketone.

Since S-1023 is a silicone rubber based coating, satisfactory adhesion to most surfaces can only be achieved through the use of a primer such as CS 9903 (available from the Chem Seal Division of Flamemaster Corporation). CS 9903 is translucent pink in color and may bleed through the CS 1023 coating.

### **MIXING AND APPLICATION INSTRUCTIONS**

Flamemaster S-1023 is a two-component system, packaged in one gallon kits having a mix ration of 8:1 parts by volume (Base:Curing Agent). S-1023 is manufactured at a viscosity which should require no further dilution for conventional spray application. If necessary, the viscosity may be reduced through the addition of minor volumes of toluene or Freon.

**STORAGE LIFE** The shelf life of S-1023 is 6 months when stored below 80°F. S-1023 is Time and Temperature sensitive material. Avoid moisture during storage.

### **CLEAN UP**

All spray lines and pots should be flushed with toluene before the blended material has a chance to cure. Cured S-1023 may be readily stripped from most tools and unprimed surfaces. Spray equipment should be cleaned up within 4 hours of use.

### **SAFETY**

Safety precautions are normal requirements for most paints. Avoid breathing of vapors and use with adequate ventilation. Precautions should be taken to avoid contact with the skin. Rubber gloves or protective creams are normally used and hands should be thoroughly washed with soap and water after exposure.

**PACKAGING** S-1023 is packaged in Gallon Kits

The information presented herein is based on data believed to be reliable. However, Flamemaster cannot insure that your results will be the same as those described, as the conditions of use are beyond our control.

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Non Volatile Content	67%
Weight Per Gallon	10.5 pounds
Fineness of Grind	6 N.S.
Viscosity	800 centipoises
Cure Time	
Set to Touch	8 hours
Full Cure	24 hours
Mix Ratio	8:1 PBV
Emittance	
Normal	0.85
Hemispherical	0.81
Absorption	0.21

Supersedes December, 1999