



D Aircraft Products, Inc. 1191 Hawk Circle, Anaheim, CA 92807

## ***DAPCO™ 2100 Primerless Silicone Firewall Sealant***

### **GENERAL DESCRIPTION**

Dapco™ 2100 is an adhesive, solvent-free, thixotropic silicone paste. Dapco™ 2100 is most commonly used as a coating, sealant, or filleting material in the construction, repair and maintenance of all types of aircraft. The product can be applied using a variety of methods and is especially useful where fire resistance, exposure to phosphate ester fluids, and/or exposure to extreme temperatures -65° F (-54° C) to 400° F (204° C) are major considerations. The product can also be used as an insulative and/or ablative heat shield. The product is available in kit sizes of 2.5 oz and 6 oz injection kit style tubes.

### **FEATURES**

- Excellent fire resistance to 3500° F
- Service temperature of -65° F up to 400° F
- Universal primerless adhesion to diverse substrates
- Good resistance to aerospace chemicals
- Offers non-inhibition curing characteristics against other sealants and adhesives
- Extended application time
- One part premixed room temperature stability
- Non-Volatile Content of 97%
- Qualified to BMS 5-63, AMS3374, BAMS 552-004, AIMS 04-05-003, AIMS 04-05-008, and CMNP009

### **TYPICAL PROPERTIES**

Color	Grey
Appearance	Thixotropic Paste
Viscosity (poise @ 77° F)	>20000
Specific Gravity (cured)	1.37

Shelf life is 6 months from mix/fill date if stored in a foiled bag at ambient conditions. Once opened, sealant should be recapped and replaced in resealable bag between times of usage. Shelf life good for 30 days after initially opened.

### **HANDLING**

Tack Free Time: 10 – 15 min.

## APPLICATION

**Applying:** The substrate must be free from contamination, i.e. dirt, oil grease, etc. Clean the surface by wiping with a suitable solvent/cleaning agent and dry thoroughly. Handling strength is achieved in 24 hours at 72° F/25° C (loads on the product should be limited until full cure is achieved).

**Curing:** Dapco™ 2100 is generally cured at ambient temperatures above 55° F (13° C). Moisture helps develop final properties (a relative humidity ranging between 30-70% is preferred). Optimum physical properties are developed when the product is cured a minimum of seven days for sealing applications, and 14 days for faying surface applications at 72° F (22° C) and 50% R.H.

**Cleanup:** Before the material has cured, the excess may be removed using Dapco™ 2000 diluent.

## TYPICAL CURED PROPERTIES

When cured in accordance with the recommended schedule, the following typical properties are developed:

Hardness (Shore A)	50
Lap Shear Strength, psi	
Substrates include: stainless steel, titanium, aluminum, and primed aluminum	
Control	350
7 days at 400° F	350
7 days at 120° F & 100% RH	350
7 days in BMS 3-11 Hydraulic Fluid	280
Peel Strength, pli	20
Flame resistance, BMS 5-63 Rev. K	< 2 sec. self extinguishing time 0 Flame Penetration
Thermal Conductivity	0.224 W/m-K (ASTM E1225)

## STORAGE AND HANDLING

Shelf life: 6 months from mix/fill date at or below 80°F/27°C  
Keep in unopened foil bags.

## SAFETY

Material Safety Data Sheet available upon request.

**For more information, contact:**  
**D Aircraft Technical Services**  
1191 N. Hawk Circle  
Anaheim, CA 92807  
(714) 632-8444  
DAir\_Adhesives@cytec.com

Distributed By:



[www.nslaerospace.com](http://www.nslaerospace.com)