

DAPCO™ 2100 Primerless Silicone Firewall Sealant

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.

DAPCO™ 2100 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.

For more information, contact:

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Features and benefits:

- **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, CMNP009, BAMS 552-004, AIMS 04-05-003, and AIMS 04-05-008**

Typical properties

Color:	Grey
Appearance:	Thixotropic paste
Viscosity (poise @ 77° F):	>20000
Specific gravity (cured):	1.37
Shelf life:	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
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Lap shear strength, psi

Substrates include: stainless steel, titanium, aluminum, and primed aluminum

Control	350
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7 days at 400°F	350
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7 days at 120°F & 100% RH	350
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7 days in BMS 3-11 hydraulic fluid	280
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Peel strength, pli	20
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Flame resistance, BMS 5-63 rev. J	< 2 sec. self extinguishing time 0 flame penetration
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Thermal conductivity	0.224 W/m-K (ASTM E1225)
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Storage and handling

Shelf life: 4 months from mix/fill date at or below 77°F (25°C)

6 months from mix/fill date at or below 40°F (4°C)

Keep in unopened foil bags.

Safety

Material Safety Data Sheet available upon request.

Important notice

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