

DAPCO™ 2200 Fast Curing Primerless Silicone Firewall Sealant

Description:

DAPCO™ 2200 is an adhesive, solvent-free, thixotropic silicone paste. DAPCO™ 2200 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 kits.

For more information, contact:

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Features and benefits:

- **Quick cure**
- **Excellent fire resistance to 2000°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**
- **Non-volatile content of >97%**
- **Qualified to BMS 5-63, AMS3374, and BAMS 552-004**

Typical properties

	Part A	Part B	Mixed
Color:	Gray	White	Gray
Solids, %:	100	100	100
Consistency:	Paste	Viscous liquid	Thixotropic paste
Density, lb./gal:	11.6	7.8	11.4
Shelf life at 77°F:	6 months	6 months	

Handling

Mixing

Part A and B must be mixed in the correct ratio and mixed thoroughly. Product is supplied in injection kits and comes with mixing instructions. Mechanical mixing is recommended.

Mix ratio

The recommended mix ratio for DAPCO™ 2200 is

	Weight	Volume
Part A	100	100
Part B	4.1	6.1

Work life

Product will extrude from the tube nicely for 30 minutes after mixing. Product becomes tack free in 1 hour.

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 <4 hours at 72°F (25°C) (high loads on the product should be limited until full cure is achieved).

Curing

DAPCO™ 2200 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). Product reaches a hardness of 30 shore A in 4 hours at 72°F (22°C) and 50% R.H, allowing for quick repairs and fast “fly away” times. Full cure is achieved in 48 hours, however optimum physical properties are developed when the product is cured for seven days 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	330
7 days at 400°F	330
7 days at 120°F & 100% RH	330
7 days in BMS 3-11 hydraulic fluid	260

Peel strength, pli	20
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Flame resistance, BMS 5-63 rev. J	< 2 sec. self extinguishing time
	0 Flame Penetration

Storage and handling

Shelf life: 6 months when stored at or below 77°F (25°C)
Keep in unopened foil bags.

Safety

Material Safety Data Sheet available upon request.

Important notice

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