

APF 77/1 R

Polyester Filler

Fire Resistant, FAR 25.853 Complies with REACH Regulations

Description

APF 77/1 R is a lightweight, flame retardant, self-extinguishing filler compound. This product complies with paragraph 25.853(a) of the Federal Airworthiness Standards for aircraft interiors. APF 77/1 R makes an excellent repair and adhesive compound for honeycomb panels and other substrates. It is also used to finish surfaces on composite panels for aircraft and other transportation vehicles.

Properties

- Fire resistant
- Self extinauishina
- Minimal shrinkage

- Excellent finishing and machinability
- Easy to use
- REACH compliant

PHYSICAL PROPERTIES						
		APF 77/1 R	Cream Hardener	Mixed		
Composition		Polyester Resin	ВРО			
Mix ratio – by weight		100	2			
Aspect		Thixotropic paste	Thixotropic paste	Thixotropic paste		
Color		Off-white	White, Black, Red	Varies		
Density at 77°F (25°C)	lbs./gal (g/cc)	8.6 (1.03)	10.0 (1.20)	8.7 (1.04)		
Pot life (100 g) at 77°F (25°C)	minutes			8 – 13		
Volumetric weight	lbs/in ³ (g/cc)			0.0377 (1.04)		

Processing Conditions

- Thoroughly blend 100 parts resin with 2 parts hardener by weight for 1 to 1 1/2 minutes in a clean dry container or on a clean dry surface.
- Carefully scrape the surfaces while blending to ensure complete mixing and uniformity.

Surface Preparation and Application

- The area to be filled or repaired should be thoroughly cleaned, roughened, cleaned again and allowed to dry prior to application to ensure the best possible adhesion.
- The mixed APF 77/1 R should be buttered into the area, avoiding trapping air during application.
- After curing to a tack-free state, the material can be sanded and finished as needed.

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Technical Data Sheet

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MECHANICAL AND THERMAL PROPERTIES						
Hardness	ASTM D-2240	Shore D	80			
			7 days at 74°F (23°C)	+16 hours at 140°F (60°C)		
Tg	ASTM E-1545	°F (°C)	119 (48)	392 (200)		
Tensile strength Elongation	ASTM D-638	psi (MPa) %	1,100 (7.5) 0.5	1,000 (6.8) 0.4		
Flexural strength	ASTM D-790	psi (MPa)	1,300 (8.9)	1,400 (10)		
Compressive strength	ASTM D-695	psi (MPa)	3,500 (23.9)	3,200 (22.1)		
Peak service temperature		°F (°C)	212 (100)			

Storage Conditions

Product shelf life is 12 months when stored in original unopened containers between 59 – 77°F (15 – 25°C). Any opened can must be tightly closed.

Handling Precautions

Normal health and safety precautions should be observed when handling these products:

- Ensure good ventilation
- Wear gloves, and safety glasses.

For further information, please consult the material safety data sheet.

Guarantee

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON quarantee the conformity of their products with their specifications but cannot quarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications

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