

FASTBLOCK® 100 Series



READY-TO-USE FIREWALL SEALANT, ADHESIVE, AND REPAIR COMPOUNDS

Description

FASTBLOCK® 100 SERIES compounds are ready-to-use, moisture-curable firewall sealants for high vibration areas. These one-part, non-ablative sealants cure to tough, durable elastomers upon exposure to air. The materials adhere well to metals, composites, paints, and most other common substrates without the use of primers or special surface preparation. FASTBLOCK® 100 SERIES sealants have a paste consistency that makes them effective on vertical and overhead surfaces and in the repair of panel holes. The materials can be dispensed from caulking systems or spread by trowel. Upon exposure to fire, the materials form a strong, dense ceramic char with excellent adhesion and fire blocking properties.

Benefits

FASTBLOCK® 100 SERIES sealants offer the following advantages:

- ▶ Reduce installation costs by eliminating mixing, primer, cold storage, and special surface preparation
- ▶ Reduce material waste via re-sealable containers
- ▶ Easy to remove and repair
- Increase occupant safety by meeting the most stringent fire, smoke, and toxicity requirements

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Uses

FASTBLOCK® 100 SERIES compounds seal firewall construction gaps, holes, slots, tube and wire penetrations, access panels, joints, and other breaches against fire and fumes. These materials can be combined with fiberglass or stainless steel foil to quickly repair larger damaged areas in non-structural firewalls. The materials can also be used as adhesives and insulating coatings.

FASTBLOCK® 100 SERIES compounds are effective at service temperatures from -54°C to +204°C (-65°F to +400°F) and withstand short-term exposure to higher temperatures including a +1100°C/116kW/m² (2000°F/10 BTU/ft²-s) flame as required by ISO 2685 and FAA AC 20-135.

Sample Properties – FASTBLO	Method				
GRAVITY	1.25			AS 5127/1	
FLOW	0.26cm (0.1	AS 5127/1			
NONVOLATILES	82%	AS 5127/1			
TACK-FREE TIME	6 hours	AS 5127/1			
HARDNESS	63 Shore A	AS 5127/1			
THERMAL RUPTURE-	No deformati	AS 5127/1			
RESISTANCE	sample cover				
	(401°F) and				
LOW TEMP. FLEXIBILITY	No cracks or	No cracks or loss of adhesion after 130 cycles at -55°C (-67°F)			
PEEL STRENGTH	<u>Panel</u>	<u>Original</u>	<u>Heat Aging:</u> 72 hrs. at 401°F (205°C)		
	Aluminum	23.54 ppi (41.2 N/cm)	22.48 ppi (39.34 N/cm)	AS 5127/1	
	CRS	25.79 ppi (45.13 N/cm)	23.5 ppi (41.0 N/cm)		
	Titanium	19.12 ppi (33.46 N/cm)	18.67 ppi (32.6 N/cm)		
CORROSION RESISTANCE	No loss of ad or aluminum at 60°C (14	AS 5127/1			
FLAME RESISTANCE	Sealant sam	FAA AC			
	did not crack	20-135			
	when tested	ISO 2685			
	(2000°F/10				
	(1) Vibration				
	fluid (MIL-L-				
	after sealant				
OIL RESISTANCE	No loss of ad	AMS			
	in AMS 3021	3374C			
	substrate				

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STORAGE STABILITY		No change in flow, hardness, or tack-free time after storage for 6 months at 27°C (80°F)					
SHEAR STRENGTH	<u>Panel</u>	<u>Original</u>	Heat Aging: 72 hrs. at 401°F (205°C)	Condensing Humidity: 168 hrs. at 120°F (49°C)			
	Aluminum	377 psi (2599 kPa)	360 psi (2480 kPa)	350 psi (2431 kPa)	3374C		
	CRS	415 psi (2862 kPa)	471 psi (3264 kPa)	310 psi (2135 kPa)			
	Titanium	375 psi (2585 kPa)	355 psi (2447 kPa)	265 psi (1827 kPa)			
APPLICATION TIME	compound g	48 g/min. (1.3 fluid ounces/ min.) flow rate from standard sealing compound gun with 440 nozzle, .32 cm (.125 inch) orifice, and 621 kPa (90 psig) pressure after 4 hours elapsed time					
REPAIRABILITY		Material adheres well to itself, other AMS 3374C sealants, and to polyurethane thermal barrier coatings					

^{*} FASTBLOCK® 100 is one of several compounds in the 100 series. Please refer so the material specification TA 18000 Rev. B (SP 111) and test report summary of each compound of interest. Properties shown above are excerpts from Test Report Summary – TR111, September 2006.

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