

Fastblock® 100

AIRCRAFT FIREWALL ONE PART SILICONE ADHESIVE, SEALING AND REPAIR COMPOUND


DESCRIPTION

FASTBLOCK®100 Series compounds are ready to use, moisture cured firewall sealants for high vibration areas. These one part non-ablative sealants cure to tough, durable polymer upon exposure to air. The compound adheres well to metals, composites, paints and most other common substrates without the use of any adhesion promoter or special surface preparation, however the use of adhesion promoter and surface preparation will help to achieve the highest level of adhesion strength. FASTBLOCK®100 compounds have a paste consistency that makes them effective on vertical, overhead surface application and in the repair of panel holes. The compound can be dispensed from a cartridge system or spread by trowel. FASTBLOCK®100 Series compounds are effective at service temperatures from -54°C (-65°F) to 204°C (400°F) and withstand short-term exposure to higher temperature flame at 1100°C (2000°F) with high heat flux density of 116 kW/m² (10 BTU/ft²-sec) per ISO 2685 and FAA AC 20-135. Upon exposure to fire, the compound forms a strong, dense ceramic char with excellent adhesion as well as thermal and fire resistance properties.

FEATURES AND BENEFITS

- Excellent fire resistance to 2000°F (1100°C) and operational temperatures of 400°F (204°C).
- One part premixed room temperature stability.
- Reduced installation cost by eliminating mixing time, adhesion promoter and special surface preparation.
- Reduced material waste via re-sealable container and two year shelf life.
- Extended application time.
- Good resistance to aviation fluids.
- Easy to remove and repair. Can be used to repair itself and other firewall products.
- Increased occupant safety by meeting the most stringent fire, smoke and toxicity requirements.
- Available in white or gray.
- FASTBLOCK®100 Series compounds comply with REACH & RoHS requirements.
- NADCAP approved qualified product per AMS 3374F type 5. NADCAP lot certification available per part number below.

Physical Properties

Consistency	Paste
Specific Gravity	1.25
Mix Ratio	One Part
Hardness (Shore A)	63.1 pts.
Shelf Life	2 years

Packaging

FB100 white in 6oz cartridge certified to TA Standard	TAFB100-006A
FB100 white in 6oz cartridge certified to AMS 3374 T5	TAFB100-006B
FB100 white in 6oz cartridge certified to both specs	TAFB100-006C
FB100 white in 32oz cartridge certified to TA Standard	TAFB100-032A
FB100 white in 32oz cartridge certified to AMS 3374 T5	TAFB100-032B
FB100 white in 32oz cartridge certified to both	TAFB100-032C
FB100 Gray in 6oz cartridge certified to TA Standard	TAFB100G006A

Part Number

APPLICATION

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 compounds can be combined with fiberglass or stainless steel foil to quickly repair large damaged areas in non-structural firewalls. These compounds can also be used as adhesives and insulating coatings.

CURING CONDITION

FASTBLOCK®100 will become tacky in about 0.5 hours at 77° F and 50% humidity. It will become tack-free in 3-4 hours. Standard cure cycle minimum 48 hrs. @ 77°F ± 5 (25°C ± 2°C) with 50 ± 10% RH humidity followed by 24 hrs. @ 140°F ± 5 (60° C ± 2°C). Alternate cure cycle 14 days @ 77°F ± 5 (25°C ± 2°C) with 50 ± 5% RH humidity (per AMS 3374).

THERMAL STABILITY

FASTBLOCK®100 Series compounds are effective at service temperatures of -54°C (-65°F) to 204°C (400°F) and withstand short-term exposure to higher temperature flame at 1100°C (2000°F) with high heat flux density of 116 kW/m² (10 BTU/ft²-sec) per ISO 2685 and FAA AC 20-135.

HEALTH PRECAUTIONS

Apply all applicable PPE during application as detailed in Safety Data Sheet (SDS)

STORAGE LIFE

24 months if stored in a dry space at 77°F in original unopened packaging

DISPOSAL

Apply all state and federal regulations for disposal of scrap or expired materials.

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