

TECHNICAL DATA SHEET

DOLPHIN Fire-Stop Acrylic Sealant

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PRODUCT DESCRIPTION

Dolphin Fire-Rated Acrylic Sealant is a single component; high-performance sealant designed for internal perimeter pointing of fire rated Door & Window frames which can resist heat up to 250°C. It has good adhesion to a wide variety of substrates without the use of a primer.

TECHNICAL PROPERTIS



Properties	Test Method	Unit	Specifications
Chemical Base			1-C Acrylic
Cure Mechanism			Air Drying
As Supplied @ 25°C, 50% RH			
Color			White, Grey
Consistency			Homogeneous paste
Density	ASTM D 1475		1.65 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Tack Free Time	ASTM C 679	minutes	5 – 10
As Cured – 21 Days @ 25°C, 50% RH			
Hardness (Shore A)	ASTM D 2240	Points	55 – 75
Full Cure Time	Lab Test	Weeks	2 – 3
Service Temp.		°C	+5 to +85
Application Temp.		°C	10 to 45

Note:

* Curing time (Skin Over Time & Tack Free Time) may vary depending on climatic condition during application.

* Information on this data sheet is subject to change without prior notice and should not be used for writing specifications

TYPICAL USES

- Fire blocking applications in the annular space around Wires, Pipes, Ducts, Vents, Cable lines and other penetrations to the Building Envelope.
- Sealing joints, voids and irregular holes in firewalls, partitions and other structures also for maintaining the integrity of Pipes and Cables that penetrate them.
- For internal perimeter pointing of fire rated Door and Window frames.

KEY FEATURES

- Paintable
- Non-Cracking
- Heat-Resistance Up To 250°C

JOINT DESIGN

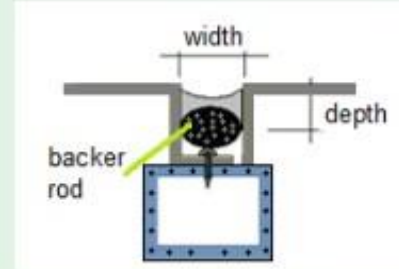
For General Use:

- joints up to 12 mm wide,
width to depth ratio = 1:1

$$\frac{\text{width}}{\text{depth}} = \frac{1}{1} \text{ or } w = d$$

- joints over 12 mm wide,
width to depth ratio = 2:1

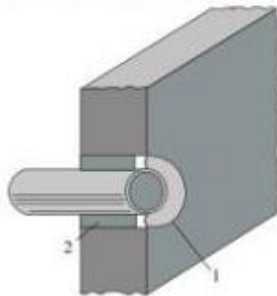
$$\frac{\text{width}}{\text{depth}} = \frac{1}{0.5} \text{ or } w = 2d$$



Install backing material, spacer, or joint filler to ensure correct depth to width ratio is achieved according to design. Apply masking tapes to areas adjacent to joints to ensure neat sealant lines.

PENETRATION DESIGN

DOLPHIN FIRE STOP ACRYLIC SEALANT HAS BEEN DEVELOPED FOR USE IN SMALL PENETRATION SEAL APPLICATIONS WHERE IT SHOULD BE USED IN CONJUNCTION WITH SPECIFIED BACKING MATERIAL (DOLPHIN FIRE RTARDANT PU FOAM)



1) DOLPHIN FIRE STOP ACRYLIC SEALANT

2) DOLPHIN FIRE RETARDANT PU FOAM

COLORS	DOLPHIN Fire Stop Acrylic Sealant is available in White and Grey color. *Special color orders may require lead time and minimum order quantities.
PACKAGING	DOLPHIN Fire Stop Acrylic Sealant is available in standard caulking cartridges, buckets and drums.
SURFACE PREPARATION	The substrate areas that will be in contact with sealant must be clean, dry and free of all loose materials, dust, dirt, rust, oil and other contaminants. Non - porous substrates should be cleaned with a solvent and a clean, lint - free, cotton cloth. Wipe dry immediately with clean cloth before the solvent evaporates from the surface.
APPLICATION INSTRUCTIONS	Cut nozzle to desired bead size. Insert cartridge into standard caulking gun. For a smooth seal, hold at 45° angle and apply by pushing sealant ahead of nozzle. Apply at temperatures between 5°C to 45°C to ensure good adhesion. Ensure that Dolphin Fire Stop Acrylic Sealant makes complete contact with the entire surface of the opening and also the surface of the penetrating items. Always follow cartridge directions. For large openings, mineral wool fibers can be used as a backer to help hold the product in place until cured. Steel screen wire can be stapled in place over the material when a large opening is overhead or configured such that the material will not support its own weight during cure.
TOOLING AND FINISHING	DOLPHIN Fire Stop Acrylic Sealant should only be used where slight joint movement is anticipated. For extremely deep joints, use backing material to fill. Tool sealant after application and before tack-free skin formation. Tooling of sealant should be done in one continuous stroke. Use masking tape adjacent to joint to obtain a cleaner joint. Remove masking tape immediately after tooling.
TEMPERATURE RANGE	DOLPHIN Fire Stop Acrylic Sealant freezes in the cartridges at temperature below 0°C. The product can be warmed and applied at any temperature but will not cure below 5°C. Freeze-thaw cycles do not alter the cured product. Cure time may exceed 72 hours at non-freezing temperature.
CLEANUP AND REMOVAL	Excess caulk should be cleaned off tools and non-porous surfaces while it is in the uncured state using a wet cloth. Cured sealant can only be removed mechanically.
PAINTABILITY	A minimum of 2 hours dry time is required before painting with latex or oil- based paint. Allow extra dry time during periods of high humidity
STORAGE AND SHELF LIFE	When stored in original unopened container at or below 77°F (25°C) in dry warehouse conditions, DOLPHIN Fire Stop Acrylic Sealant has a shelf life of 24 months from manufacturing date. Containers should always be kept sealed when not in use.
HANDLING PRECAUTIONS	Use in well-ventilated area. Direct contact of uncured sealant may irritate eyes and skin. Over exposure to vapor may irritate eyes, nose and throat. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

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