



FIRECAULK

FIRE RATED ACRYLIC SEALANT

KEY FEATURES

- Fire rating for gaps up to 40mm
- Good flexibility joint movement $\pm 25\%$
- One part, no mixing required
- Very easy to apply and gives a smooth finish
- Smooth gunnability and tool off finish
- Low odour
- Non toxic
- Asbestos free
- Priming not normally required
- Water clean up
- Prevents the passage of hot gases
- Paintable after 24 hours at 20°C
- Water resistant after cure
- Excellent adhesion to metal, wood, plasterboard, all masonry, AAC and Hebel
- Acoustic capabilities with a 67 STC* rating in plasterboard construction

DESCRIPTION

Bostik Firecaulk is a single component, non-sag, fire rated acrylic based gunnable sealant. A general purpose product for construction joints and the sealing of service penetrations in plasterboard, concrete floors and masonry wall constructions. Bostik Firecaulk is a gun grade acrylic based sealing compound specifically manufactured for sealing low movement interior joints (up to $\pm 25\%$) in masonry and plasterboard to provide a fire barrier for periods up to 4 hours.

CLASSIFICATION / STANDARDS

Fire resistance when tested in accordance with AS1530.4-2014 and AS4072.1-2014

* rating dependant on overall wall system configuration.

RECOMMENDED USES

- Sealing of gaps around pipes, cables, ducts and services which penetrate fire rated walls and floors.
- Installation of fire rated sealant in concrete walls and floors, and plasterboard walls.
- For vertical and horizontal joints; interior
- Application requiring acoustic properties or STC rating

PERFORMANCE PROPERTIES

Typical properties after 7 days cure at 25°C and 50% RH on correctly primed substrates

Colour	White, Grey, Limestone
Appearance	Non-sag smooth thixotropic paste
Stain and Colour Change	None
Chemical Resistance	Fair
Max. Joint Movement	$\pm 25\%$
VOC	34 g/Litre
Chemical Type	One component intumescent acrylic
Max. Joint Width	40mm
Service Temperature	-20°C to +90°C
Application Temperature	+5°C to +35°C
Tool Working Time	15 minutes at 25°C
STC Rating *	67
Fire	Non-Flammable

* Rating dependant on overall wall system configuration

- Perimeter sealing of door and window framing interior.
- Sealing gaps between facade and cladding panels to various building materials.
- For new construction and remedial applications.
- To prevent the spread of fire and smoke through walls and floors

SURFACE PREPARATION

Bostik Firecaulk should be applied to a minimum depth of 6mm, maximum width of 40mm. The ratio of joints width to sealant depth should be approximately 2:1. Joint width should not be less than 6mm. The joint depth must allow a sealant depth, after installation of backer rod or bond breaking material, of a minimum of 6mm. Lap shear joints should have a bead width equal to, or greater than twice the anticipated movement. A conservative design practice, which uses a portion of the sealant's movement capability as a safety factor is recommended. Sealant are subject to cohesive failure when the actual movement is greater than their rated capability.

Preparation

Clean all surfaces by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants and any protective coating. Porous substrates should be cleaned by grinding saw cutting or blast cleaning (sand or water). Dust, loose particles, etc should be blown out of joints with oil free compressed air or vacuum cleaned. Non porous and plastic surfaces should be cleaned by solvent or mechanical means. Cleaning solvents should not be allowed to air dry or evaporate without being wiped with a clean, dry cloth.

PRIMING

Priming is not required unless surface to be bonded is in poor condition or exceptionally porous. Consult Bostik Technical Department for advice on priming.

MIXING

No mixing is required for Bostik Firecaulk. Simply use directly from sausage.

APPLICATION

Bostik Firecaulk when used as an adhesive or sealant, should be dispensed from sausage sachet by means of operated caulking gun designed for such application (available from Bostik).

Sausages application :

A barrel gun is required, this is available from Bostik. Clip the end of the sausage and place complete sausage in barrel gun with pierced end located at the top of the nozzle. Screw top of nozzle and housing on barrel of gun. Use the trigger on the gun to extrude product from the sausage. To stop product flow, depress the catch plate mechanism located at the very rear of the gun directly above the trigger. Apply Bostik Firecaulk in a continuous operation using positive pressure adequate to properly fill and seal a cavity. Tool Bostik Firecaulk with sufficient pressure to spread the sealant against the back-up material and onto the joint surfaces. A tool with a concave profile is recommended to achieve the correct shape.

COVERAGE

Linear meters per 600ml sausage (approx.).

Joint Size	12mm x 6mm	16mm x 8mm	20mm x 10mm	24mm x 12mm
600 ml	8.3 m	4.7 m	3 m	2.1 m

$$\text{Litres} = \frac{W \times D \times L}{1000}$$

W : Width (mm) D : Depth (mm) L : Length (metres)

PAINTABILITY

Bostik Firecaulk is paintable after fully cured.

Important Notes

- Bostik Firecaulk is not recommended for water immersion, exposed external joint sealing or areas subject to heavy traffic.
- Bostik Firecaulk should not be applied with wet tooling techniques using solvents, water or detergent solution.

- Bostik Firecaulk should not be applied to surfaces with special protective or cosmetic coatings without prior consultation with the manufacturer. Such surfaces include, but are not limited to, mirrors, reflective glass, or surfaces coated with Teflon, Polyethylene or Polypropylene.
- Bostik Firecaulk can be affected by water before or during cure. The sealant should not be stored, applied or cured in areas where unusually high humidity or free water is present during the application or initial cure.
- Bostik Firecaulk should be allowed to cure prior to subjecting to any intermittent water exposure.
- Do not apply to surfaces with temperature under 5°C, as cure will be retarded.

CURE RATE

The cure rate is dependant on the bead size (width & depth), and is greatly effected by temperature, humidity, and the presence of water and moisture on the substrate. Approximate cure rates at 23°C and 50% RH are as follows;

- 1mm - 1 day
- 3mm - 5 days

PACKAGING

600ml per sausage
20 sausages per carton

CLEAN UP

Equipment can be easily cleaned with water while wet or by soaking in Bostik 9913 solvent.

SHELF LIFE AND STORAGE

All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze. Bostik Firecaulk has a shelf life of 12 months from date of manufacture when stored at or below 27°C in original unopened container.

HEALTH AND SAFETY

For health and safety instruction, first aid measures and spillage and disposal instructions, see Material Safety Data sheet.

The information and recommendations relating to the application and end-use of the product are given in good faith and based on tests which we believe to be reliable. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. However, no warranty in respect of merchantability or fitness for a particular purpose, nor any liability arising out of any legal relationship, whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. No guarantee of their accuracy can be made because of the great range of field conditions and variation encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with limited warranty only, and on condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik be liable to anyone except for replacement of the products or refund of the purchase price.

BOSTIK HOTLINE

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This document supersedes all previously published literature.