Bostik smart adhesives

Technical Data Sheet

Firecaulk

Fire Rated Acrylic Sealant

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 +/- 25%) in masonry and plasterboard to provide a fire barrier for periods up to 4 hours.

Features

- Fire rating for gaps up to 40mm.
- Designed for Australian conditions.
- Good flexibility joint movement +/- 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.
- Available in three colours, white, grey and limestone

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.
- Perimeter sealing of door and window framing interior.
- Sealing gaps between faced 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

Classifications / Standards

Fire resistance when tested in accordance with AS1530.4-2014 and AS4072.1-2014
*rating dependant on overall wall system configuration

Application Instructions

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. Joints 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.

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Firecaulk

Fire Rated Acrylic Sealant

Sealants 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.

Application
Bostik Firecaulk when used as an adhesive or sealant should be dispensed from either the cartridge or sausage sachet by means of a hand or air operated caulking gun designed for such application (available from Bostik). Cut the cartridge and screw on the supplied nozzle. Having previously cut this to give the required angle and bead size. Place the cartridge in a suitable Bostik extrusion gun and press the trigger. For sausages, a barrel gun is required, this is available from Bostik. Clip the end of the sausage and place complete sausage with pierced end located at the top of the nozzle. Screw top of nozzle and housing on barrel of gun. Using the trigger on the gun extrude product from the sausage to stop product flow, using the thumb 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.

Method of Application
Surfaces to be sealed should be clean, dry and free from oil, grease, dust, dirt and mould release agent. Install back-up material or joint filler as specified. Apply **Bostik Firecaulk** sealant in a continuous operation using a positive pressure adequate to property fill and seal the joint or penetration. 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.)

Size	12x6	16x8	20x10	24x12
600ml	8.4	5.0	3.0	2.0

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

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

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 bucket, sausage or cartridge.

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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 is not recommended.
- **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 5ºC, as cure will be retarded.

Bostik Co-Operative Test Program

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information. Bostik offer a service in which a program has been established to eliminate potential field problems by pretesting Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

Properties

Colour/s	White, Grey, Limestone
Appearance	Non sag smooth thixotropic paste
Stain and Colour Change	None
Chemical Resistance	Fair
Max. Joint Movement	+/- 25%
VOC g/Lt	34

*rating dependant on overall wall system configuration

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

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

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Storage & Shelf Life

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 27ºC

Safety Precautions

SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.
EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)
MSDS can be downloaded from www.bostik.com.au

Clean-Up

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

Packaging

Bostik Firecaulk is available in 10 litre pail, 600ml sausage and 300ml cartridges.

Fire

Bostik Firecaulk is non-flammable

VOC – 34 g/Lt
voccertificates.australia@bostik.com

Product Details

ITEM NO	ITEM NAME	SIZE	COLOUR
239747	FIRECAULK	10L	LIMESTONE
239755	FIRECAULK	960gm	LIMESTONE
245410	FIRECAULK	300ml	WHITE
354392	FIRECAULK	960gm	GREY

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The information in this Technical Data Sheet is intended for the assistance of purchasers and is of a general nature. It reflects the extent of our knowledge and experience of our products and is based on tests which we believe to be reliable. However, no guarantee of accuracy can be given due to the wide range of surfaces, environmental and field conditions and variations encountered in raw materials, manufacturing equipment and methods at the place where the work is performed. Some of these will be beyond our knowledge or control. We recommend purchasers carry out their own tests to determine the suitability of the product for their particular purposes. Bostik Australia Pty Ltd limits its liability to replacement of the products or refund of the purchase price, but this limitation does not affect consumers' rights which cannot by law be excluded.

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Certified System
Quality
ISO 9001
SAI GLOBAL

Quality endorsed ISO9001 (Thomastown site)
TS16949 (Automotive

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