FIRE BOND FOAM SEALANT

TECHNICAL DATASHEET

Version: 2016-05-31

PRODUCT DESCRIPTION

Fire-Bond 2K Sealing Foam is 2-component sealing foam, which expands when applying it. The product is cured independently of presence of humidity and is therefore suitable for closed areas. Designed for connection fire-classed joints and let-troughs of piping in buildings, fire-class up to EI 120. Standard approval certificate according to 0048/07. Bostik Fire-Bond 2K Sealing Foam fulfils the demands according to EN 1366-4:2006, EN 1366-3:2004, EN 1363-1:1999 and applied parts of EN 1363-2:1999. The tests are shown in the SP (SP=Technical research institute of Sweden) reports P602692 A and B. The results of the tests are shown in the chart below.

AREA OF USAGE

Sealing of joints in fire classed constructions and let-through of cables, steel piping and ventilations pipes through massive construction parts of concrete and light concrete with minimum thickness of 150 mm.

WORKING INSTRUCTION

Working instructions 1. Turn the plastic plate at the bottom of the can at least 6 times at the right side. 2. Shake vigorously 20-30 times with the valve pointed downwards. There will be a faint rattling sound from within the can, which will indicate that the cap of the chamber, containing the hardening component, has been released, and the mixing process has started. 3. Remove the upper protection cap and screw the adapter firmly on to the valve as far as the stop. The foam is tack-free after 5-7 min and can be cut after about 10 min. Fire-classed joints The gap between building parts must be completely filled with fire retardant foam. Excess of the fire retardant foam must be removed by cutting after application. Then cover the joint with board or similar consisting of 16 mm wood, 12 mm gypsum or 0,7 mm metal. Attach the board with nail or screw with a distance between centres of the nail/screw of maximum 250 mm. The dimension of joint must follow standards described below in order to fulfil NT FIRE 005. Ventilation piping let-through Openings in the solid part of the building part, designed for the ventilation pipe should be the same size as the diameter of the ventilation pipe +max 50 mm. Apply the fire retardant foam in the space between the canal and the building part. The depth of the joint should always be equal to the thickness of the full building part. When the fire retardant foam is fully cured, remove excess foam by cutting and isolate the ventilation canal with incombustible rock wool. The ventilation canal must be isolated with minimum 80 mm incombustible rock wool with minimum density 100 kg/m3 on a distance of minimum 500 mm on both sides of the building part. The incombustible rock wool must be approved as incombustible material, A1 or A2. Steel piping let-trough Openings in the solid part of the building part, designed for the steel pipe should be the same size as the diameter of the steel pipe +max 40 mm. Apply the fire retardant foam in the space between the piping and the building part. The depth of the joint should always be equal to the thickness of the full building part. When the fire retardant foam is fully cured, remove excess foam by cutting and isolate the piping with incombustible rock wool. The steel piping must be isolated with minimum 80 mm incombustible rock wool with minimum density 100 kg/m3 on a distance of minimum 500 mm on both sides of the building part. The incombustible rock wool must be approved as incombustible material, A1 or A2. . Cable let-through Openings in the solid part of the building part, designed for the cable should be the same size as the diameter of the cable +max 40 mm. Apply the fire retardant foam in the space between the cable and the building part. The depth of the joint should always be equal to the thickness of the full building part. When the fire retardant foam is fully cured, remove excess foam by cutting and paint with fire retardant paint. The foam and the cable should be painted with fire retardant paint on a distance of minimum 120 mm on each side of the building part. The thickness of the fire retardant paint should be minimum 1,0 mm. The fire retardant paint should be approved according to certificate 3787/92. Pre-treatment. Clean the let-through from any loos
See chart above. Cleaning Uncured sealing foam is removed with ac
nically. Coating Painting should be carried out, using a special fire re

SAFETY

The product is, according to valid legislation, classified as extremely flammable and hazardous to health. Read the warning text on the package. For further information, see material safety data sheet.

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TECHNICAL DATA

Properties before application	
Material type	2C Polyurethane foam
Consistency	Foam
Hardening system	2C system
Working temperature	The package should be min +10°C and max +25°C
Cleaning	Acetone, uncured foam. Cured foam mechanically.
Propellant	Propane/Butane highly flammable
Storage	12 months in unopened package. Stored dry and cool.
Package	400 ml
Properties after application	
Foam volume	approx. 10 liter
Movement in joint	± 5%
Temperature resistance	-40°C to +80°C
Durability	Excellent. Cured foam is not UV resistant and must be protected from direct UV light.
Water absorption	0,3 volume% (DIN53466)
Coating	Must be painted with fire retardant paint
Surface hardening	5 ☐ 7 minutes
Curing	approx. 10 minutes

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