



FIRE BOND PRESSURE

TECHNICAL DATASHEET

Version: 2018-04-18

PRODUCT DESCRIPTION

Pressure Seal+ is a water-based acrylic fire grouting compound which expands under high pressure in fire conditions to seal openings in fire retardant structures around smaller plastic pipes (including MLCP pipes), metal pipes and bundles of standard-type cables. Independently tested in accordance with EN 1366-3: 2009 and provides up to 4 hours of fire resistance in the tested material combinations together with a designated fire sealant. Fire performance classified in accordance with EN 13501-2. The product is part of a product system that has been documented and tested in accordance with ETAG 026 part 2 and CE marked for use as firefighting foam. The system is also certified by UL (Underwriter Laboratory).

Always consult Bostik's collection of tested structures before using the product. The product contains no environmentally harmful substances or phthalates and is indoor environment classified according to Finnish M1 requirements.

AREA OF USAGE

Typical application in an indoor environment is fire seals around pipes and cables. Tested in walls and floor tiles in concrete and masonry or lightweight walls of plaster and steel/wood studs. Non-flammable plastic pipes include the following pipe types: PVC, PE, PP and composite pipes/MLCP in varying material thickness and diameter. Suitable in structures with flammable pipes, but with continuous pipe insulation of nitrile rubber in walls and floor joists. The surface of the grout can be coated with water-based dispersion paint after the grout is thoroughly dry. For other paint types, conduct a paint test.

WORKING INSTRUCTION

Always consult Bostik's installation instructions for different fire grouts before starting work. The dimensional fire resistance is always determined by factors such as the depth of the separation structure, the depth of gravity, grout width and type and amount of fire sealant. For safe and easy work, use Bostik Fire Bond Backing Wool where fire sealant wool is indicated. The function of the grouting compound is based on the mass swelling in contact with heat and filling up the cavity of the collapsed duct (e.g., a plastic pipe). This is why the amount of grouting compound (the thickness) must also be sufficient in relation to the diameter of the pipe. This is stated in the installation instructions for each designated structure. The consumption of the grouting compound is calculated: grout width (mm) x grout depth (mm) x grout length (meter) divided by 300 (for 300 ml cartridge) or 600 (for 600 ml for tube). The surfaces must be dry and clean and free from grease to ensure proper adhesion to the substrate. Start by opening the cartridge or the tube with a suitable cutting tool/knife. Screw the nozzle and cut off the top at a 45 degree angle. Adjust the opening to the width of the joint opening. For narrow grouts, apply the grouting compound to the substrate at such a rate that you can check that adhesions with the substrate is good. Smooth off the grout with a suitable tool so that the surface becomes smooth and that the grouting compound sticks to the side of the grout. Use Bostik grouting pins or a trowel to smooth out the grout.

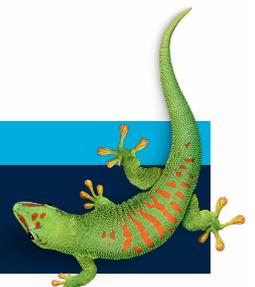
For larger areas where the grouting compound is used for spraying a surface, apply the grouting compound to the bottom part of the surface and smooth out the compound with a trowel and soapy water.

SAFETY

The grouting compound fulfils stringent requirements with regards to the environment and health and safety at work and emits low levels of emissions. For further information, always consult the relevant safety data sheet before using the product.

CONTACT US

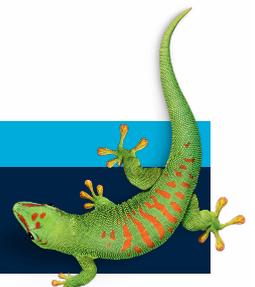
TEL +46 (0)42-19 50 00
info.se@bostik.com



CONTACT US

TEL +46 (0)42-19 50 00

info.se@bostik.com



Bostik AB, Strandbadsvägen 22, Box 903, SE-251 09 Helsingborg Tlf: +46 (0)42-19 50 00, Fax: +46 (0)42 19 50 21, www.bostik.se

Disclaimer: The technical data we present, as well as our instructions and recommendations are all based on a variety of tests and our experience. They are intended to help the user to find the most suitable working method and get the best possible results. Since the users working conditions is beyond our control, we cannot accept any responsibility for the results obtained by the product.

TECHNICAL DATA

Properties before application	
Material type	1 component acrylic dispersion of graphite type/swell in fire
Setting system	Evaporation of water
Density	1.6 kg/l
Colour	Graphite grey
Storage temperature	Frost-sensitive, limit to +5°C to +30°C
Properties after application	
Operating temperature	+5°C to +40°C
Temperature resistance	Temporarily -10°C to +80°C
Expansion factor in fire	6.9 in accordance with ASTM E2786-10 at least 150°C
Skin formation time	15-30 minutes depending on the climate of the room
Can be painted over after	After completely dried grout for the best result without forming cracks. Use water-based dispersion paint. For other paint types, conduct a test.
Drying time	3 mm per day at normal room climate. Depending on grout depth.
Hardness	60 Shore A
Movement absorption ability	±10% of the original joint width
Resistance class	Class Y2 in accordance with ETAG 026/EOTA TR024
Climatic conditions for resistance	Indoor or outdoor use in the temperature range -5°C to +70°C, but protected from direct weathering (including rainfall).
Outdoor use	Yes, protected from rainfall and UV light.

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