

Product Information:

Fire Guard A+ 566

Professional fire rated acrylic sealant

General description and application:

Fire Guard A+ 566 is a plastic water-based acrylic sealant, suitable for sealing around pipe penetrations through walls and floor slabs.


Fire Guard A+ 566 meets the fire classification EI 120, however, dependant on the construction of the joint.

Fire Guard A+ 566 expands during heating and prevents penetration of smoke gas and fire.

Fire Guard A+ 566 contains no organic solvents, halogens, phthalates or asbestos.

Fire Guard A+ 566 is tested according to EN 1366-3: 2009, fire penetrations.



Member of  Danish Association of Sealant Applicators & Manufacturers.

Physical / chemical properties:

Uncured sealant:

Type: Water-based acrylic sealant
 Colour: White
 Fungicide treated: No
 Texture: Paste, thixotropic
 Density: 1.6 kg/litre.
 Shelf life: Minimum 18 months in unopened packing, if stored cool and dry.
 Packaging:

Item no.	Colour	Size
56632	White	300 mL cartridge

Cured sealant:

Paintable: Yes
 Resistance: The sealant retains all properties intact from -25 °C to +80 °C. In case of fire the sealant will in accordance with the fire test of the construction in question withstand higher temperatures.
 Water resistance: Resistant to moisture, but not water resistant.
 Climatic ageing: Good.



Directions for use:

Joint dimensions: See table 01 on page 3

Surface Preparation: All surfaces must be clean, dry, free of grease, dust and loose particles.
Porous surfaces should be primed with a dilution of 50 % water and 50% sealant.
In practice, variations can occur in the different materials, therefore it is always recommended to carry out sufficient bonding tests before commencing – particular in larger applications.

Application temperature: +5 °C to +40 °C.

Application: The tip of the cartridge is cut off with a keen knife after which the tip is cut with an inclined cut, which is a bit smaller than the width of the joint. The sealant is applied by means of a hand- or pneumatic gun.

The sealant is pressed in place and finished with a joint nail dipped in water, a wet sponge or a wet cloth, immediately after application.

Curing: Skin formation: approx. 15 minutes at 23 °C and 50 % RH.
Fully curing in approx. 3-7 days, depending on the size of the joint, air humidity and temperature. The curing time is prolonged at lower temperatures and higher relative humidity.

Cleaning: Tools can be cleaned - and sealant removed with hot water before curing.
Cured sealant can only be removed mechanically.
Hands and skin should be washed with soap and water.

Health and Safety:

For further information on safety, refer to the product safety data sheet.



Fire classification:

The following joint constructions are tested according to EN 1366-3, 2009, fire penetrations. It is the responsibility of the user to clarify with the relevant authorities that the product used, and the construction meets the fire regulation in question. The joints have been designed in order that depth is half the width, however, for technical reasons, other dimensions have been used for some of the constructions.

The conditions for the tables below are,

- Joints in homogeneous walls made of lightweight concrete, regular concrete or masonry with a minimum thickness of 100 mm
- Joints to gypsum plasterboard walls with a minimum thickness of 100 mm
- All penetrations are to be carried out on a minimum of two layer of gypsum plasterboard, masonry and concrete with a density of minimum 600 kg/m³

The fire joint closure must at least have the same fire rate as the classified building part.

All joints are mounted on ceramic insulation/stone wool as backing material, with a density of at least 45 kg/m³.

Walls:

Tabel 01

	Installation / penetration						Illustration
	Penetration/material	Depth of joint	Backing	Integrity [E]	Insulation [I]	Fire class [EI]	
Joint 10 – 30 mm	Electric cables ≤ 21 mm	25 mm	Ceramic insulation	120	90	90	
	Electric cables > 21 - 50 mm	25 mm	Without	90	60	60	
	Perforated cable tray 50 mm	25 mm	Ceramic insulation	120	90	90	
	PVC-pipes up to 40 mm, 3 mm thickness	25 mm	Without	120	120	120	
180 * 180 mm hole	Penetration/material	Depth of joint	Backing	Integrity [E]	Insulation [I]	Fire class [EI]	Illustration
	Electric cables ≤ 21 mm	20 mm	Ceramic insulation/ e.g minaral wool	120	120	120	
	Electric cables > 21 - 80 mm			90	60	60	
	100 mm cable bundles			120	120	120	
	Electric cable up to 27 mm			120	60	60	
	Non-isolated steel/copper pipes ≤ 16 mm			120	120	120	
	Blank hole			120	120	120	

The information and data contained in this Product Information sheet are based on extensive laboratory testing and our practical experiences and are meant for helping the user to find optimum working methods. As the conditions at the user are beyond our control, we make no warranties concerning the results, achieved by the products. The information's in this Product Information sheet are typical values, intended as a guideline. They should not be regarded as product specifications. Please also refer to our standard sales conditions and terms of delivery.

DANA LIM A/S - KØBENHAVNSVEJ 220 - DK-4600 KØGE – DENMARK – INFO@DANALIM.DK
PH. (+45) 56 64 00 70 - TECHNICAL SERVICE PH. (+45) 56 64 00 75