

Product Information:

Fire Guard S 564

Professional fire rated silicone sealant

General description and application:


Fire Guard S 564 is a neutral curing 1-component silicone sealant. The sealant cures by reaction with the humidity of the air. Fire Guard S 564 forms a permanently elastic joint, which has a movement capacity of +/- 25 %. The sealant is easy to apply and has excellent weathering characteristics.

Fire Guard S 564 meets the fire classification EI 300, however, dependant on the construction of the joint.

Fire Guard S 564 is suitable for indoor and outdoor fire rated joints around window- and doorframes, partitions, floors and ceilings.

Fire Guard S 564 is tested according to EN 1366-4: 2010, **linear joint seals** and meets ISO 11600 F LM25.



Member of  Danish Association of Sealant Applicators & Manufactures.

Physical / chemical properties:

Uncured sealant:

- Type: Neutral curing elastic silicone sealant.
- Fungicide treated: No
- Texture: Paste, thixotropic
- Density: 1.29 kg/litre.
- Shelf life: Minimum 12 months in unopened packing, if stored cool and dry.
- Packaging:

Item no.	Colour	Size
56432	White	300 mL cartridge
56462	White	600 mL foilbag
56433	Grey	300 mL cartridge

Cured sealant:

- Paintable: No
- Hardness: Approx. 25 Shore A
- Maximum movement acc.: +/- 25 %
- Resistance:
 - Temperature: The sealant retains all properties intact from -40 °C to +150 °C. In case of fire the sealant will in accordance to the fire test of the construction in question, withstand higher temperatures.
 - Water: Very good
 - UV: Very good

Directions for use:

- Joint dimensions:* See table 01 and 02 on page 3.
- Surface Preparation:* All surfaces must be clean, dry, and free of grease, dust and loose particles.

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:* Can be applied at temperatures between +5°C and +40°C
- Application:* The tip of the cartridge is cut off with a sharp 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.
- Curing:* Skin formation: approx. 20 minutes at 23°C and 50 % RH.
Curing time: 1 – 2 mm/day at 23°C and 50 % RH.
6-7 mm/week at 23°C and 50 % RH

The curing time is increased at lower temperatures and lower humidity in the air.
- Treatment:* Fire Guard S 564 cannot be painted.
- Cleaning:* Tools can be cleaned - and sealant removed with e.g. acetone and white spirit.
Cured sealant can be removed mechanically or with Silicone Remover 911.
Hands and skin should be washed with soap and water.

Health and safety:

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

Fire classification:

The following joint constructions are tested according to EN 1366-4: 2010, linear joint seals. 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 concrete, lightweight concrete or masonry with a minimum thickness of 150 mm.
- Joints to softwood, hardwood and steel with a thickness of minimum 150 mm.
- Joints at floor structures/separations made of regular concrete, lightweight concrete or masonry with a thickness of minimum 150 mm.

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

All Joints are mounted on backing material PE backer rod 980, it to be used in dimension approx. 25 % larger than the width of the joint.

Walls

Approved for joints in regular concrete, lightweight concrete or brick constructions, with a thickness of minimum 150 mm
Table 01

Building part	Width of joint	Joint width/depth ratio	Backer rod 980	Double joint
Lightweight concrete - Lightweight concrete	12-50 mm	2:1	PE	EI 300
Soft wood - Lightweight concrete	12-49 mm	2:1	PE	EI 120
Soft wood - Lightweight concrete	50 mm	2:1	PE	EI 240
Hard wood - Lightweight concrete	12-29 mm	2:1	PE	EI 120
Hard wood - Lightweight concrete	30-50 mm	2:1	PE	EI 240
Lightweight concrete - Steel	12-29 mm	2:1	PE	EI 60
Lightweight concrete - Steel	30-49 mm	2:1	PE	EI 90
Lightweight concrete - Steel	50 mm	2:1	PE	EI 120

Floor structures/separations:

Approved for joints in regular concrete, lightweight concrete or brick constructions, with a thickness of minimum 150 mm
Table 02

Building part	Width of joint	Joint width/depth ratio	Backer rod 980	Single joint
Lightweight concrete - Lightweight concrete	12-30 mm	2:1	PE	EI 120
Lightweight concrete - Lightweight concrete	31-50 mm	2:1	PE	EI 60
Lightweight concrete - Steel	12-50 mm	2:1	PE	EI 30

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.

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