

**Produkt Information:**

# Fire Guard MS 567

**Professional fire rated MS sealant**

**General description and application:**

Fire Guard MS 567 is a one component moisture curing sealant. Fire Guard MS 567 is suitable for indoor and outdoor fire rated joints around doors and windows, partition walls, floors and ceilings.

Fire Guard MS 567 meets the fire classification EI 120, however, dependent on the construction of the joint.

Fire Guard MS 567 is odor free, fast curing, can be over painted and has excellent weathering characteristics. Fire Guard MS 567 has after curing a movement capacity of up +/- 20 %.

Fire Guard MS 567 is tested according to EN 1366-4: 2010, **linear joint seals** and meets ISO 11600 HM20.

The product is registered in the database for construction products that can be included in the Nordic Ecolabelled construction.



Member of **F&O** Danish Association of Sealant Applicators & Manufacturers

**Physical / chemical properties:**

**Uncured sealant:**

- Type: MS-hybrid Polymer, 1-component
- Fungicide treated: No
- Texture: Paste, thixotropic
- Density: 1.5 kg/litre
- Shelf life: 18 months in unopened packing, if stored cool and dry
- Packaging:

Item no.	Colour	Size
56732	White	290 mL cartridge
56762	White	600 mL foilbag
56763	Grey	600 mL foilbag
56767	Dark grey	600 mL foilbag

**CE**

DANA LIM A/S  
Københavnsvej 220  
DK-4600 Køge  
14  
DOP: 15651-0567-1

EN 15651-1  
F-EXT-INT-CC

**Cured Sealant:**

- Paintable: Yes, but the fire classification of Fire Guard MS 567 has been achieved without over painting
- Hardness: Approx. 26 Shore A (DIN 53505)
- Modulus elongation: 0,4 N/mm<sup>2</sup> (DIN 53504 S2)
- Elongation at break: Approx. 500 % (DIN 53504)
- Maximum movement acc.: +/- 20 %
- Resistance: Temperature: The sealant retains all properties intact from -40 °C to +90 °C. In case of fire the sealant will in accordance to the fire test of the construction in question, withstand higher temperatures. Good weathering characteristics. Good resistance to water, aliphatic solvents, oil, grease and watered inorganic acids and alkalis.

**Directions for use:**

*Joint dimensions:* See table 01, 02 and 03 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:*

<i>Skin formation:</i>	<i>approx. 15 minutes at 23 °C and 50 % RH</i>
<i>Curing time:</i>	<i>2 - 3 mm/day at 23 °C and 50 % RH.</i>
	<i>7 - 8 mm/week at 23 °C and 50 % RH.</i>

*The curing time is prolonged at lower temperatures and lower humidity in the air.*

*Cleaning:* Tools can be cleaned – and sealant removed - with e.g. acetone or white spirit. 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 1366-4: 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 lightweight concrete, concrete or masonry with a minimum thickness of 150 mm
- Joints to softwood, hardwood and steel with a minimum thickness of 140 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 both sides, (double sealed joints).

**Walls:**

Approved for joints mounted on backing material **PE backer rod 980** in lightweight walls, with a thickness of minimum 140 mm, and in concrete walls, with a thickness of minimum 150 mm.

Table 01

Building part	Width of joint	Joint depth	Backer rod 980	Vertical joint	Horizontal joint
Wood* - Lightweight concrete	20 - 40 mm	20 mm	PE	EI 90	
Wood* - Lightweight concrete	10 - 20 mm	10 mm	PE	EI 90	
Gypsum board mounted on steel frame	20 - 40 mm	20 mm	PE	EI120	
Steel - Lightweight concrete	20 - 40 mm	20 mm	PE	EI 30	
Lightweight concrete - Lightweight concrete	10 - 20 mm	10 mm	PE		EI 120
Lightweight concrete - Lightweight concrete	20 - 40 mm	20 mm	PE	EI 120	

\* Wood: Densitet  $\geq 450 \text{ kg/m}^3$

\* 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 mounted on backing material either **stone wool or ceramic insulation material**, in lightweight walls, with a thickness of minimum 140 mm, and in concrete walls, with a thickness of minimum 150 mm.

Table 02

Building part	Width of joint	Joint depth	Backing material*	Vertical joint	Horizontal joint
Wood** - Lightweight concrete	10 - 20 mm	10	35	EI 120	
Lightweight concrete - Lightweight concrete	10 - 20 mm	10	35	EI 120	
Gypsum board mounted on steel frame	10 - 20 mm	10	35	EI 120	
Steel - Steel	10 - 20 mm	10	35	EI 60	
Steel - Lightweight concrete	10 - 20 mm	10	35		EI 60

\*Wood: Densitet  $\geq 450 \text{ kg/m}^3$

\*Backing material: Stone wool (density  $\geq 250 \text{ kg/m}^3$ ) or ceramic insulation material.

**Floor structures/separations:**

Approved for joints mounted on backing material either **stone wool or ceramic insulation material**, in lightweight concrete, regular concrete or brickwork constructions, with a thickness of minimum 150 mm.

Table 03

Building part	Width of joint	Joint depth	Backing material*	Horizontal joint
Lightweight concrete - Lightweight concrete	30 mm	15 mm	30 mm	EI 120

\*Backing material: Stone wool (density  $\geq 250 \text{ kg/m}^3$ ) or ceramic insulation material.

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**