## Produkt Information:

# Fire Guard MS 567

**Professional fire rated hybrid sealant**


### General description and application:

*Fire Guard MS 567 is a neutral curing 1-component hybrid sealant.*

*Fire Guard MS 567 is moisture-curing and forms an elastic joint that can absorb movements of up to +/- 20 %.*

*Fire Guard MS 567 is used for fire rated joints around windows- and doorframes, partition walls, floors and ceilings. For certain joint constructions, joints constructed with Fire Guard MS 567 meets the fire classification EI 120.*

*Fire Guard MS 567 is paintable, can be used for indoor and outdoor applications and has excellent resistance to climatic influence.*

*Fire Guard MS 567 meets the requirements of Emicode Class EC 1$^{PLUS}$.*

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

*Member of* FDO *Danish Association of Sealant Applicators & Manufacturers*

### Physical / chemical properties:

***Uncured sealant:***

| | |
|---|---|
| *Type:* | *MS-hybrid Polymer, 1-component* |
| *Fungicide treated:* | *No* |
| *Texcture:* | *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

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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$^2$ (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.*<br>*In case of fire the sealant will in accordance to the fire test of the construction in question, withstand higher temperatures.*<br>*Good weathering characteristics.*<br>*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.*<br><br>*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 +30 °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. 15 minutes at 23 ˚C and 50 % RH<br>*Curing time:* 2 - 3 mm/day at 23 °C and 50 % RH.<br>7 - 8 mm/week at 23 °C and 50 % RH.<br>*The curing time is prolonged at lower temperatures and lower humidity in the air.* |
| *Cleaning:* | *Uncured sealant can be removed with wipes.*<br>*Cured sealant can only be removed mechanically.*<br>*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 | Double 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 ≥ 450 kg/m³*
** 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* | Double 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 ≥ 450 kg/m³*
**Backing material: Stone wool (density ≥ 250 kg/m³) or ceramic insulation material.*

***Floor structures/separations (single joint):***
*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 single joint |
|---|---|---|---|---|
| Lightweight concrete - Lightweight concrete | 30 mm | 15 mm | 30 mm | EI 120 |

***Backing material: Stone wool (density ≥ 250 kg/m³) or ceramic insulation material.*



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