

Product Information:

VDI Sealer

1-component adhesive and joint sealer designed especially for ventilation industry.

Product description:

*Strong and elastic adhesive sealer
Evens out potential tensions
Compensate for difference in expansion
In- and outdoor constructions
Bonds to most surfaces without the use of a primer
Free of organic solvents
Free of silicone
Free of isocyanate
Paintable in wet and dry state
Neutral, non-corrosive (can be used on metals)
Smooth and dismissive cured surface
Tested and approved for HVAC systems according to VDI 6022 by ILH
Berlin*

Typical application:

*Assembly and sealing of ventilation channels
Sealing of welded assemblies
Bonding of materials with different coefficients of expansion
Bonding of foamed sheet material*

Physical / chemical properties:**Uncured sealant:**

*Type: Silane Modified Polymer (SMP), 1-component
Curing mechanism: Moisture curing from +5 °C
Skin formation: approx. 20 min.
Curing: 2-3 mm/24 hours. Increased air humidity and temperature increases the curing.
Consistency: Tixotropic paste. Exhibits no flow when applied i.e. stays in place. Easy tooled
Specific gravity: Approx. 1.46 kg/litre
Shelf life: 1 year in original unopened packing, if stored cool and dry.
Packaging possibilities: 290ml cartridge, 400 & 600ml bag, 20 litre hob bock, 200 litre drum.
Colours: White, Grey & Black*

Cured sealant:

*Paintable: Yes
Hardness: approx. 40-46 Shore A (ISO 868)
Elasticity: +/- 20%
Tensile strength: 2.3 N/mm² (ISO 37)
Elongation at break: 300 % (ISO 37)
Elastic modulus: 1.1 N/mm² (ISO 37)
Resistance: Temperature: approx. -40 °C to +90 °C.
Resistance towards climatic: Good.*



Directions for use:

- Preparation:** *All surfaces must be clean, dry, and free of grease, dust and loose particles. VDI Sealer can be used without primer on most surfaces. Make a test to determine a need for primer.*
- In practice, variations can occur in the different materials, therefore it is always recommended to carry out sufficient bonding tests before commencing – in particular larger applications.*
- Joints in which VDI Sealer is used should be dimensioned so that the movement of the free sealant is below +/- 20 %.*
- Application conditions:** *Can be applied at temperatures from +5 °C to +40 °C and a relative air humidity at minimum 30 %.*
- Application:** *The sealant is applied by means of dispensing equipment added to a drum-pump-system or directly from a hand- or pneumatic gun with either a cartridge or a sausage.*
- The VDI Sealer is added in strings of adhesive directly to the materials. The materials can be placed on the floor, walls or ceilings – the adhesive will at all times stay in place, and it will not flow. The strings of adhesive can be placed close to each other for full sheet bonding or with more distance between to reduce the amount of adhesive for lighter applications.*
- If the sealant is used for joints, the sealant is pressed in place and finished with a joint nail dipped in a soap dilution immediately after application.*
- Reach:** *2 – 3 m²/cartridge, depending of dimension and demands of strength.*
- Time for application:** *Mount within 15-20 min. after applying the strings of adhesive.*
- Mounting:** *When mounting up heavy items, or in case of special applications, it can be necessary to support the item, or to hold the material in place, while the adhesive cures.*
- Cleaning:** *Tools can be cleaned - and sealant removed - with either Wipes 915 or white spirit. Cured sealant can only be removed mechanically. Hands should be washed with water and soap.*

Health and safety:

For further information concerning safety, refer to Safety Data Sheet.

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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