

## Product information

### Vi-Pro® Strongbond SB25 MS

Version: 1.1

Date: 18.10.2023

## Vi-Pro® STRONGBOND SB25 MS

### One-component construction sealant with a high modulus of elasticity

#### Product description:

Vi-Pro® Strongbond SB25 MS is a one-component, permanently flexible construction sealant based on polymer technology with silane groups terminated. It cures under the influence of atmospheric moisture, creating a flexible sealant with excellent adhesive properties and high resistance to aging and weather conditions. Free of solvents and isocyanates, free of VOC. Excellent thixotropic consistency.

#### Application areas

- Sealing joints in vertical and horizontal applications
- Connections of external walls and facade cladding
- Weather sealing of joints between bricks, blocks, masonry, wood, concrete, metal frames
- Connections in walls, floors, balconies, around window or door frames
- Sealing metal roofs and gutters
- Sealing and bonding of various materials
- Flexible connections between metal, plastic, glass and other materials
- Suitable for bonding EPDM membranes and seals.

#### Properties

- Environmentally friendly - free from isocyanates and solvents
- No hazard symbol required
- No bubble formation - odourless
- Permanently flexible over a wide temperature range
- Joint movement capability +/- 25%
- Excellent resistance to aging and weather conditions; permanent colour
- Free from silicone; can be over-painted
- Excellent adhesion without primer to all common building materials and substrates.

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#### Technical parameters:

<b>Apperance</b>	Non-sagging thixotropic paste
<b>Colour</b>	Grey, white, black
<b>Chemical base</b>	Silane modified polymer
<b>Curing mechanism</b>	Curing with moisture
<b>Deep hardening (mm), (24h-23°C i 50% RH)</b>	About 2,0
<b>Shore A hardness (N/mm<sup>2</sup>), (DIN 53505)</b>	About. 28
<b>Density (g/cm<sup>3</sup>)</b>	About 1,51
<b>Tack free time (min), (23°C i 50% RH)</b>	About 50
<b>Modulus of elasticity at 100% (N/mm<sup>2</sup>), (ISO 37 DIN 53504)</b>	About 0,6
<b>Tensile strength (N/mm<sup>2</sup>), (ISO 37 DIN 53504)</b>	About 1,6
<b>Elongation (%), (ISO 37 DIN 53504)</b>	About 460
<b>Joint movement capability (PN-EN 15651/1; ISO 11600)</b>	±25 % joint width
<b>Application temperature (°C)</b>	od +5 do +40
<b>Temperature resistance (°C)</b>	-40/+100, (short-term up to +120)

#### Recommended conditions of use:

##### Surface preparation

Pre-check the substrates for adhesion. It may be necessary to use cleaners and / or primers for optimal adhesion. The surfaces must be clean, dry, free from water, oil, grease or rust, and in good condition. Remove any loose particles or debris with a blower of compressed air, sandpaper, or a stiff brush. Glass, metal and other non-porous surfaces must be free from all coatings and wiped with a solvent.

Screw the plastic nozzle on and cut it at an angle depending on the thickness of the sealant layer. Place the cartridge in a manual or air operated gun (eg. Vi-Pro® Pneumatic Gun or Vi-Pro® G613) and carefully squeeze out the adhesive / sealant taking care not to trap air.

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After opening, the cartridges should be used up relatively quickly. The optimal working temperature for both the substrate and the sealant is between 15 ° C and 25 ° C.

#### **Chemical resistance**

Long-term resistance to fresh water, sea water, lime water, corrosive substances and cleaning agents. Short-term resistance to gasoline, grease and mineral oils. Not resistant to organic acids, concentrated mineral acids and solvents. This information is provided for general guidance only. Application-specific advice will be provided upon request.

#### **Sealing**

To ensure free movement of the sealant in the joint, it is imperative that the sealant does not stick to the bottom of the joint to be filled. Therefore, in order to seal the joint properly, a closed-cell polyethylene foam filling material (e.g. Vi-Pro® Backer Rod) should be placed at an appropriate depth. Press sealant firmly into joint ensuring material adheres fully to the surfaces on both sides of the joint and to the backing material at the bottom of the joint. Apply sealing compound with a steady and even stream from the nozzle to avoid air entrapment. Avoid overlapping layers of sealant to eliminate the risk of air entrapment. The sealant should be processed to a smooth finish ensuring full adhesion to the side wall surfaces and pressing the filling material into the joint, which in turn will help to break up air bubbles that may arise inside the sealant. Masking tapes should be used where even, precise lines of the joint or high aesthetics of the joint are required. The masking tapes should be removed while the sealing material is still soft.

The width of the joint should be designed in such a way that the filling can compensate for its movements. Generally, the width of the joint should be between 6 mm and 35mm. The 2: 1 width-to-depth ratio should be respected. The minimum width of the perimeter gap around the windows: 6 mm.

#### **Finishing and tooling**

Processing and tooling with Vi-Pro EASY TO TOOL should be done within the tack free time. Vi-Pro® Strongbond SB25 MS is paintable. The paint must be tested for compatibility by carrying out preliminary trials. Attention should be paid to the use of alkyd resins, as they can interfere with the curing process of the mastic and reduce the drying time of the paint itself. Please note that the hardness and thickness of the paint film can reduce the flexibility of the sealant and lead to cracking of the paint film.

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Avoid entrapment of air when applying sealant. As the sealant cures by reaction with moisture, make sure that the joint is in contact with air. Glued elements may require additional immobilization or support during the hardening period.

#### **Tool cleaning:**

Clean tools with Vi-Pro Wipes, Vi-Pro Easy to Clean, acetone or alcohol immediately after use. Hardened material can only be removed mechanically.

#### **Limitations:**

Before using Vi-Pro® Strongbond SB55 MS on bituminous, natural rubber substrates natural rubber substrates, and other substrates that may release oils, plasticizers or solvents that may cause degradation of the sealant, compatibility tests should be performed compatibility. Avoid exposure to high levels of chlorine (avoid sealing joints in chlorinated swimming pools). Avoid contact with alcohol and other cleaning solvents during curing.

#### **Package:**

Vi-Pro® Strongbond SB25 MS is supplied in 600 ml sausages, 20 pieces per carton.

#### **Storage:**

Vi-Pro® Strongbond SB25 MS can be stored for 12 months in its original packaging (unopened container) at 5 ° C-25 ° C in a cool, dry place. The storage temperature should not exceed 25 ° C for a long time. Store away from humid places, direct sunlight and heat sources.

#### **Precautions:**

The Material Safety Data Sheet is available upon request. Material Safety Data Sheets are made available to the customer for proper handling, safety and waste disposal, and compliance with local health and safety legislation. Safety data sheets are regularly updated, therefore the most recent version of the safety data sheet should be read before using any product.

Do not dispose of by incineration. Use in a well-ventilated area. In case of contact with skin, remove immediately and wash with soap and water.

BEFORE USING THE PRODUCT, ALWAYS READ THE MATERIAL SAFETY DATA SHEET.

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**Customer Notes:**

The above information is accurate and to the best of our knowledge, based on reliable research and practical experience. The specified properties are provided for guidance only and do not constitute guaranteed product properties. The customer should test the product for specific applications to be sure that it has the expected properties and provides the required operating performance. The only warranty states that the product meets the specifications stated in the sales specification at the time of delivery. This warranty is limited to the replacement or return of the value of the purchased product in the event that it is different than the guaranteed one. The seller is not liable for any incidental or consequential damages.

Additional information is available at: +48 22 122 85 49 and reach@vi-pro.eu