

Product information

Vi-Pro® Strongbond SB20 MS

Version: 1.1

Date: 18.10.2023

Vi-Pro® Strongbond SB20 MS

One-component construction sealant with a low modulus of elasticity

Product description

Vi-Pro® Strongbond SB20 MS is a one-component, gun-applied, non-sagging construction sealant based on a silane-modified polymer. It cures under the influence of atmospheric moisture, creating a high-performance mixture with permanent flexibility and high resistance to aging and weather conditions. Free from solvents and isocyanates.

Application areas:

Vi-Pro® Strongbond SB20 MS is a versatile and efficient construction sealant for expansion joints and moving structural joints in vertical and horizontal applications, precast element joints, exterior wall joints and facade cladding. Suitable for sealing metal roofs and gutters, bridges and balcony window sills, weather sealing of joints between bricks, blocks, masonry, wood, concrete, metal, window and door frames, bonding of EPDM membranes and seals.

Properties:

- Environmentally friendly - free from isocyanates and solvents
- No hazard symbol required
- No bubble formation – odourless
- Bonds and seals at the same time
- Permanently flexible; joint compensation movement $\pm 25\%$
- Easy to apply and process
- Excellent adhesion to majority of building and industrial materials
- Exceptional thixotropic properties, no runoff, short cut-off string
- Non-staining on concrete and porous materials
- Excellent resistance to aging and weather conditions; stable colour
- Can be painted with many types of water-based and solvent-based paints (pre-testing recommended).

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Technical parameters:

Apperance	Thixotropic paste
Colour	Grey, white, black. Others on request
Chemical base	Silane modified polymer
Curing mechanism	Curing with moisture
Deep hardening (mm), (24h-23°C i 50% RH)	about 2,1
Shore A hardness (N / mm²), (DIN 53505)	about 20
Density (g / cm³)	about 1,50
Skin time (min), (23 ° C and 50% RH)	about 100
Modulus of elasticity at 100% (N/mm²), (ISO 37 DIN 53504)	about 0,4
Tensile strength (N/mm²), (ISO 37 DIN 53504)	about 1,2
Elongation (%), (ISO 37 DIN 53504)	about 500
Joint movement capability (PN-EN 15651/1; ISO 11600)	± 25% of joint width
Application temperature (°C)	from +5 to +40
Temperature resistance (°C)	-40/+90, (short-term up to +120)

Application recommendation:

The substrate must be perfectly clean, dry, and free of dust and grease. Vi-Pro® Strongbond SB20 MS has very good primerless adhesion properties for most commonly used building materials. Therefore, the use of a primer is not necessary if the substrate to be sealed is properly prepared, strong and compact. However, various - types of brick, natural stone, plastics, paints, coatings - and various other surface treatments often present a difficult surface to achieve adequate adhesion. Due to the number of properties of these substrates that are difficult to predict, a preliminary test is recommended. . Prefabricated panels with anti-adhesive agents other than polyethylene foil must be sandblasted or mechanically ground and dust-free.

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Recommended application temperature: 15°C - 25°C. For ease of use or use in low temperatures, we recommend storing the material at a temperature of around 25°C before use. 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, for the proper execution of the joint, a filling material made of polyethylene foam with a closed cell structure (eg Vi-Pro® Backer Rod) should be placed at the appropriate depth.

If necessary, apply a suitable primer to the sides of the joint and allow the solvent to evaporate to prevent air bubbles in the uncured sealant from trapped solvent exposure as the temperature rises.. Press the sealant firmly into the joint, making sure the material is fully adhering to the surfaces on both sides of the joint and the Vi-Pro® Backer Rod filling material at the bottom of the joint. Holding the nozzle in the recess, apply sealing compound with a steady and even stream from the nozzle to avoid air entrapment. Do not allow sealant layers to overlap to avoid air entrapment.

Processing and finishing with Vi-Pro EASY TO TOOL should be done before the skin formation time has elapsed. . Vi-Pro® Strongbond SB20 MS is paintable. The paint must be tested for compatibility by carrying out preliminary trials. Be careful with the use of alcohol or alkyd, as they can interfere with the curing process of the mastic and reduce the drying time of the paint itself. Be aware that the hardness and thickness of the paint film may reduce the flexibility of the sealant and lead to cracking of the paint film. Do not cure in the presence of curing silicone sealants. Avoid contact with solvent-based cleaners during curing. 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. Do not apply when there is a risk of moisture or water vapor being released from the substrate as this may cause blistering of the seal. Final performance depends on good joint design and proper application with properly prepared joint surfaces.

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, plasticisers or solvents that may cause degradation of the sealant should be tested for compatibility.

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Package:

Vi-Pro® Strongbond SB20 MS is supplied in 600 ml sausages, 20 pieces per carton.

Storage:

Vi-Pro® Strongbond SB20 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. Keep out of the reach of children. 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.

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 or reach@vi-pro.eu