

# Technical Data Sheet

Rev 2 – August 2020



## SiegelFlex MS20

### Product Description

*SiegelFlex MS10 is high performance MS polymer sealant and adhesive with excellent adhesion on most construction materials, providing permanent elasticity and movement capability.*

### Product Advantages

- ❑ *SiegelFlex MS10 primeless high strength bonding to most surfaces.*
- ❑ *SiegelFlex MS10 has excellent UV and weathering resistance, no cracking or crazing.*
- ❑ *SiegelFlex MS10 is silicone oil free, leaving no stains on adjacent substrates*
- ❑ *SiegelFlex MS10 is solvent free resulting in no slump or shrinkage over time.*
- ❑ *SiegelFlex MS10 is matte finish and is paintable, with no air bubbling.*

### Application

*SiegelFlex MS10 is recommended for sealing concrete joints like precast wall panel joints, expansion joints, control joints, connection joints etc. It is also ideal for window perimeter sealing especially where the sealant needs to be painted. Other applications include sealing and bonding of GRC panel systems, anodized aluminium, masonry, porcelain, coated metal, finished wood and polyester, and stainless steel.*

### Technical Information

Adhesive type	MS Polymer	
Colour	Grey, Black, White	
Maximum Tensile Strength	1.1 N/mm <sup>2</sup>	ASTM D 412
Shore Hardness A	33	ASTM C 661
Elongation at Break	600%	ASTM D 412
Movement Capability	±50%	ASTM C 719
Low VOC Compliance	Yes	SCAQMD Rule #1168
VOC content	<10g/L	USEPA Method 24
Elastic Recovery	>70%	ISO 7389
Cure depth (24 hours) at 23°C, 50% humidity	Approx. 3mm	
Shelf Life	12 Months	
Application Temperature	5°C - 40°C	

### Consumption Estimate

Joint Width	6mm	10mm	20mm
Joint Depth	6mm	10mm	10mm
Distance per 600ml	15.15 metres	5.45 metres	2.75 metres

## Surface Preparation

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Surface must be dry and clean; free of dirt, grease, oil or water. Use the two-cloth method to clean if the surface is dirty. For a neat finish, consider using masking tape and remove it within the working time. Excellent for porous substrates such as concrete. For sealant designs with depths over 10mm, use approved backing materials.

## Application Direction

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### Two cloth Method

1. Use a clean, lint-free and absorbent cloth
2. Pour an appropriate amount of solvent onto the cloth
3. Wipe vigorously to remove any contaminant and check if there is any contaminant picked up
4. Continue to wipe the surface until no contaminant is picked up
5. Immediately wipe the surface with solvent on a separate clean cloth.
6. Make sure the surface is dried off completely before applying primer or sealant.

### Choice of Solvent

- The solvent or cleaning agent used to clean the surface will affect the adhesion of the sealant.
- Detergents and soap solutions should not be used as they will leave a film on the surface.
- Oil-based solvents (mineral spirits, turpentine, kerosene etc) will leave oily satins on the surface.
- 50% solution on isopropyl alcohol (IPA) and water is generally recommended to wipe minor surface contaminants.
- For tougher stains, use ketones such as acetone or methylethylketone.
- For oil and grease toluene and methylethylketone is recommended.
- Always test the solvent or cleaning agent on an inconspicuous area of the substrate to ensure it will not damage the substrate.

### Sausage

1. Cut the tip of the sausage carefully and slip into the caulking gun
2. Cut the nozzle into an appropriate diameter at an angle of 45°-60°
3. Place the nozzle into the caulking gun and screw tight
4. Extrude the sealant with a single bead
5. Tool the sealant bead with a clean and dry tool within the working time for a smooth finish.

## Restrictions

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- SiegelFlex MS10** is not recommended for use below waterline or in permanent water immersion.
- SiegelFlex MS10** should not be used on polyethylene, polypropylene, polytetrafluoroethylene, neoprene and bituminous surfaces.
- SiegelFlex MS10** should not be used for outdoor bonding adjacent to glass substrates.
- SiegelFlex MS10** should not be overcoated with:
  - Alkyd resin paint – inhibits cure to the paint
  - Chlorinated paint – staining issue
  - Oil based paint – not compatible

## Storage and Shelf Life

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**SiegelFlex MS10** sausages have a shelf life of 12months in their unopened state.

### **Health & Safety**

All the constituent parts of this adhesive meet or exceed the French VOC requirements for class A+, ISO 11600 F&G 20LM, CE marked 15651 for façade, glazing and sanitary applications and the requirements of VOC content specs in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.

Health and Safety: Users must first read the Safety Data Sheet. Users should familiarize themselves with all the safety aspects of the product prior to usage.

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### **Product Disclaimer**

Since the use and application of this product is beyond our control, we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty. In every case we recommend that the customer conducts their own testing and accordingly determines, to their satisfaction, its suitability for their purpose under the operating conditions in which they will use the product/s.

For additional information, phone our Customer Service Centre on 1300 729 863.

May 2020 - This Data Sheet supersedes those previously issued.

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