

## SIMFLEX FC MS SEALANT



### Description

Simflex FC MS Sealant is a high modulus sealant based on advanced MS Polymer technology. It is a single-component sealant with superior weathering, UV, and temperature resistance. Specially formulated to achieve low VOC, SimFlex FC is able to comply with the SCAQMD rule 1168 (Architectural Sealant). It also gives good primer-less adhesion on most substrates. Unlike polyurethane sealants, SimFlex FC is solvent-free and isocyanate-free; ensuring that the cured sealant will not shrink or have bubbling issues. It is also free of silicone oil, minimising building aesthetic issues caused by oil staining and dirt streaking problems often associated with silicone sealants.

### Key performance Properties

- High modulus
- High strength structural bonding
- Good UV resistance
- Paintable
- Isocyanate-free – No air bubbling
- Solvent-free – No shrinkage
- Primerless bonding to most substrates
- Meets the requirements of Low VOC - USEPA Method 24 under SCAQMD Rule 1168

### Technical Data

Property	Value
Curing Mechanism	Moisture curing
Specific gravity	1.44 g/mL
Maximum tensile strength ASTM D 412	2.2 N/mm <sup>2</sup>
Maximum tensile strength ISO 8339	0.70 N/mm <sup>2</sup> (7.6 kgf/cm <sup>2</sup> )
Elongation at break ASTM D 412	190 %
Lap shear strength ASTM D1002	2.1 N/mm <sup>2</sup>
Shore A hardness ASTM C661	56
Low VOC compliance	Yes
VOC content	24.22 g/L
Tack-Free time	4 – 15 minutes (at 25 °C & 50% R.H.)
Service Temperature	-30 °C – 90 °C
Application Temperature	5 °C – 40 °C
Shelf Life	12 months

## SIMFLEX FC MS SEALANT

### Applications

Suitable for high strength sealing and bonding in construction, automotive, marine, and industrial applications. It is specially formulated for structural joint that will be subjected to dynamic stresses. Ideal for bonding of plastics (nylon, PVC, ABS, polycarbonate, etc.), metals (stainless steel, aluminum, steel, copper, etc.), rubber (natural rubber, synthetic rubber, EPDM, etc.), natural materials (wood, plywood, leather, cloths, paperboard, etc.) and inorganic substrates (concrete, mortar, natural stone, tile, glass, porcelain, etc.)

### Application

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent.  
Do not use soap or detergent.
3. For a neat finish, apply masking tape and remove it before sealant skins over.
4. Cut nozzle at 45° angle to desired bead-width and apply to substrate with cartridge gun.
5. Uncured sealant can be cleaned up with mineral spirits.

### Limitations

Not recommended for the following applications:

- Below waterline or permanent water immersion.
- Outdoor sealing/bonding adjacent to glass substrates.
- Polyethylene, polypropylene, polytetrafluoroethylene (Teflon), neoprene, and bituminous surfaces.
- Overcoated with:
  - Alkyd resin paint - cure inhibition to the paint
  - Chlorinated paint - staining issue
  - Oil based paint - not compatible
- Used in trafficable joints greater than 10 mm width.  
For trafficable joint above 10 mm width, a steel cover plate is required.

### Health and Safety

For more information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing, physical, ecological, and toxicological and other safety related data.

### Shelf Life

Store the product in a cool and dry place.  
The shelf life is 12 months at temperatures below 30°C.

### Caution

Keep out of reach of children. Avoid contact with skin and eyes. Use in well-ventilated places. Don't breathe vapors. Do not smoke when using the product.

### Legal Notes

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. Company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.

### COLOURS



White



Black



Grey