

MF889-25

Silicone Weatherproofing Sealant

◆ INTRODUCTION

MF889F-25 is one component, neutral, moisture cured in room temperature silicone sealant.

◆ PURPOSES

Mainly applied to seam filling of glass curtain walls, aluminum curtain walls for weatherproofing and waterproofing.

◆ CHARACTERISTICS AND ADVANTAGES

- Low modulus with 100/50 degree displacement capability, could provide 25 years guarantee used together with silicone structural sealant in accordance with standard ETAG 002.
- Excellent adhesion to a wide range of substrates including coated, and float glasses, wood materials, aluminum profile, galvanized steel, masonry and etc.
- Excellent aging property and good property on high-low temperature resistance. Can sustain repeated deformation caused by alternating of high & low temperature within its displacement capability and with minimal impact to its property.
- Excellent material for extension, junction, surrounding sealing and other move seam.
- Good adhesion to most of construction material without primer.
- Operate easily, normal silicone applicator is suitable for application.
- Good performance on sag.
- Solvent free, no pollution to the environment.

◆ PROPERTIES

| STANDARD | ITEMS | TECHNICAL REQUIREMENTS | VALUES |
|---|---|------------------------|-------------------|
| Test at 23°C and 50% RH before curing. | | | |
| GB/T 13477.2 | Density-g/cm ³ | — | 1.40 |
| GB/T 13477.6 | Sag, mm | ≤3 | 0 |
| GB/T 13477.3 | Extrusion property, ml/min | ≥80 | 380 |
| GB/T 13477.5 | Tack-free time, h | ≤3 | 2.5 |
| | Curing time, d | — | 7~14 |
| | Construction temperature scope, °C | — | 5~40 |
| Test after 28 days at 23°C and 50% RH. | | | |
| GB/T 531.1 | Hardness, Shore A | 20~60 | 35 |
| GB/T 22083 | Displacement capacity, % | 100/50 | 100/50 |
| - | Temperature resistance range after cured | — | -60~180 |
| GB/T 13477.8 | Modulus at 100% elongation Elongation at break, % Tensile strength, Mpa | — | 0.3 480 0.9 |
| GB/T 13477.10 | Adhesion at fixed elongation | No Deformation | No Deformation |
| GB/T 13477.11 | Adhesion at fixed elongation after soak | No Deformation | No Deformation |

| | | | |
|---------------|--|-----------------------|-----------------------|
| GB/T 13477.15 | Adhesion at fixed elongation after soak & UV | No Deformation | No Deformation |
| GB/T 13477.13 | Adhesion after cold drawn-hot pressing | 100/50 No Deformation | 100/50 No Deformation |
| ASTM C719 | Adhesion at cyclic tension | 100/50 No Deformation | 100/50 No Deformation |
| GB/T 13477.17 | Elasticity recovery, % | ≥80 | 94 |
| | Weight loss, % | ≤10 | 3.6 |
| | Volume loss, % | ≤10 | 4.5 |

◆ **SPECIFICATION**

MF889-25 is one component, high elastic and low modulus silicone weatherproofing sealant with applying to various kinds of construction curtain wall, especially high rise building curtain wall and complex structure curtain wall. With the property of easily operating at most condition of external temperature, and curing with moisture. Due to its property on displacement capacity under high& low temperature, MF889-25 could meet standard JG/T 475 and provide 25 years guarantee used together with silicone structural sealant in accordance with standard ETAG 002.

◆ **METHODS OF APPLICATION**

Surface-cleaning

The sealing joint and assembly parts must be clean, dry and free of all contamination and impurities, such as grease, dust, water logging,

Injection of sealant

- According to relevant requirements, install back-up material, glass block, lining bar for isolation and tapes. Masking tape should be used on adjacent area surrounding the joints to guarantee a clean and good appearance of the sealing line.
- For non-porous materials, a good adhesion can be guaranteed without primers. However, the primers are necessary for some certain porous materials. Do adhesion test before commencement of works.
- Continuously extrude MF889-25 and fully fill it in the joints(by air-driven injecting gun or other injecting machines). Do adjustment on operating pressure when using air-driven injecting gun to prevent occurrence of bubbles.

◆ **COLOR**

Except black, grey and white color, the special requirements from clients on color can be negotiated and manufactured.

◆ **APPLICATION OF STANDARDS**

MF889-25 Silicone Weatherproofing sealant fulfills and surpasses the following standards:

- GB/T 22083G, F100/50
- JG/T 882 I
- GB/T 14683 G, F
- ISO11600G, F
- ASTM C920 type S, type NS, 100/50, suit for
- type NT, G, A

frosting, dirties on the surface, remaining glues, assembly accessories and protective coatings.

- Before skin formation on surface of sealant, make it even on back-up materials and on surface of joints, to keep the surface in a neat and smooth condition.
- Get rid of smashing tapes after sealing. No liquids like water, soap suds and alcohols in fore-mentioned process.

◆ ATTENTION

1. In case of contact with eyes, rinse immediately with plenty of water.
2. Avoid contacting with skins for a long time, and avoid contacting with children.
3. Avoid contaminating foods, medicines or cosmetics.
4. Do a test on adhesive property of project materials before using and refer to MSDS. Get more information on safety use and hazards. As for safety notice which is not mentioned, please refer to relevant specification JGJ 102.

◆ STORAGE AND SHELF LIFE

For sealant in original package, shelf life will be 12 months store in cool, dry and ventilated places. Use it before the "period of validity" marked on the package.

◆ PACKAGE

| |
|-----------------|
| Sausage Package |
| 592ml/piece |
| 20pieces/carton |

◆ RESTRICTION

This product have not been tested or described for the application on medicines.

Not applicable in the following conditons.

1. Joints exposed in underground water or contacts undergoing excessive frictions.
2. Submerge in the water for a long time.
3. Any building materials extruding grease, plasticizer or solvents, vulcanized or semi-vulcanized rubber.
4. Frosted or humid surface.
5. The region where is closed and cut off atmosphere vapor (moisture curing).
6. Surfaces where paints are used (generally paints cannot be adhered on surface of silicone).
7. No contact with food or other affiliated category.

