

DJ-A3-MF889F

Fireproofing Sealant

◆ DESCRIPTION/APPLICATIONS

SILANDE DJ-A3-MF889F Fireproofing Sealant, a one-part, RTV, neutral-cure, architectural grade sealant, designed specifically for the fireproofing and flame retardant sealing for various win-doors and different layers of curtain walls, waterproofing, decoration, anti-humidity of public constructions.

It easily extrudes in any weather and cure at ambient temperature by reaction with moisture in the air to form a durable, flexible silicone rubber seal.

◆ FEATURES

- Excellent fireproofing and flame retardant performance.
- Ideal adhesion to a wide range of substrates including coated glass, enamelled and reflective glass, anodized and polyester paint coated aluminium and stainless steel and other porous and non-porous substrates.
- Suitable for use on extension/compression movement capability of up to $\pm 20\%$ of the original joint width.
- Excellent weather sealing and temperature stability: -60°C to 180°C .
- Ideal for expansion, connection, perimeter and other movement joints.
- High level of mechanical performance.
- High elasticity and high modulus.
- Resistant to ozone.

◆ TECHNICAL DATA-TYPICAL PROPERTIES

TEST ITEMS	TECHNICAL DATA	TEST RESULT	STANDARD
Test Conditions: T (23 $\pm$ 2)$^{\circ}\text{C}$, (50 $\pm$ 5)% RH			
Density, g/cm ³	-	1.55	GB/T 13477.2
Sag, mm	≤ 3	0	GB/T 13477.6
Extrusion Property, ml/min	≥ 80	260	GB/T 13477.3
Tack-free Time, h	≤ 3	2	GB/T 13477.5
Curing Time, d	-	7~14	-
Range of Application Temperature, $^{\circ}\text{C}$	-	5~40	-
Test Conditions: 28d placed at T (23 $\pm$ 2)$^{\circ}\text{C}$, (50 $\pm$ 5)% RH			
Movement Capability, %	20	20	GB/T 24267
Range of Temperature Resistance, $^{\circ}\text{C}$	-	-60~180	-
Modulus at 100% Elongation, MPa	-	0.75	GB/T 13477.8
Elongation at Break, %	-	135	
Tensile Strength, MPa	-	0.81	GB 23864
Fire Resistance Property, h	-	3	
Vertical Flammability Property	FV-0	FV-0	GB/T 2408

◆ APPLICABLE STANDARDS

- GB/T 24267 SR 20HM
- GB/T 14683 G,F 20HM
- ASTM C 920 Type S, Grade NS, Class 20, NT, G,A
- ISO 11600 F, G 20HM

◆ LIMITATIONS

SILANDE DJ-A3-MF889F should not be applied to:
Not suitable for structural glazing application.
In design where the silicone is encapsulated and without access to atmosphere moisture.
Do not use when application surface temperature below 4°C or exceed 50°C.
Surface which will be painted, as painting over rubber is not recommended.
Do not use water for tooling and do not apply to wet or damp surface.
On surfaces that are continuously immersed in water.

◆ APPLICATION METHODS

Install backing materials or joint fillers, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but maybe necessary for optimal sealant of certain porous surfaces. A test placement is always recommended. Apply DJ-A3-MF889F in a continuous operation using a positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.) Before a skin forms (typically within 15 minutes), tool the sealant with slight pressure to spread the sealant against backing material and the joint surfaces. Remove masking tape as soon as the bead is tooled.

◆ FIRST AID INFORMATION:

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.
Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Wash contaminated clothing and shoes before reuse.
Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.
If swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give person two glasses of water. Never give anything by mouth to an unconscious person. Keep out of reach children. Refer to Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) for more details. Emergency Telephone Number: +86 371 67982270

◆ PREPARATION INSTRUCTION:

For good adhesion, a clean, dry and grease free surface is necessary. All contaminants, impurities, or other adhesion inhibitor (such as moisture/frost, oils, old sealant, soaps and other surfaces treatment, etc) must be removed from the surfaces to which the sealant is intended to adhere. Clean by using a two-rag wipe technique-wet one rag with solvent and wipe the surface with it, then use the second rag to wipe the wet solvent from the surface before it evaporates. In all cases where used, solvent should be wiped dry with a clean, white cloth or other lint-free wiping materials.

For cleaning, a solvent-dampened clean rag usually produces the desired result. Isopropyl alcohol (IPA) is commonly used solvent and has proven useful for most substrates. Cleaning of surface should be done within 1 to 2 hours when the sealant is to be applied.

The use of masking tape is recommended where appropriate to ensure a neat joint and to protect adjoining surfaces from over application of sealant. Masking tape should be removed immediately after tooling the sealant and before the sealant begins to skin over (tooling time).

Extrude with manual and pneumatic sealant gun, cut tip to desired bead size, puncture seal in nozzle and remove metal seal on end of cartridge before placing cartridge in caulking gun. Make bond before the product skins. Adhesive sealant must be used within 30 mins after inner seal is punctured. Good ventilation is necessary in the process of installation and curing. To ensure the best adhesive properties, do a test on adhesion before using in batches and peeling adhesion tests at regular intervals are also required while carrying out installation.

◆ **COLORS**

Black/Grey/White

Custom colors may be ordered to match virtually any substrate.

◆ **SHELF LIFE AND STORAGE**

9 months from the data of manufacture, store in a low moisture, dark place below 30°C in the original unopened packing.

◆ **PACKAGING**

Cartridge: 300ml	25pcs/carton
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Sausage : 592ml	20pcs/carton
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