



SU 10

Single component, Polyurethane joint sealant

DESCRIPTION

SU 10 is a low modulus one-component, moisture curing Class A polyurethane sealant, especially formulated to ensure bubble free cure even at very high temperature and humidity climatic conditions. It cures into a flexible, durable and weather resistant elastomeric sealant that has very good adhesion to most construction materials

SU 10 meets the performance requirements of the following specifications:

- ISO – 11600
- ISO-11600,
- Type F - class: LM, DIN-18540-F, ASTM C920, U.S. Federal Specification TT-S-00230C, Type II Class A.

SU 10 is CE certified according to EN 15651-1 (Sealants for Facades) and 15651-4 (Sealants for Floor Joints with Foot traffic).

USES

- Interior and exterior expansion joints in building
- Sealing of small joints and fillets, windows and door frames
- Flashing and common roofing detail applications
- Sealing joints of facade panels and curtain walls
- In-situ concrete
- Precast panels
- Water tanks and swimming pools
- Metal frames
- Irrigation channels
- Granite and marble

FEATURES

- No bubbling/swelling upon curing in difficult climatic conditions.
- Non staining
- UV resistance
- Resistance to dilute acids and alkalis
- Good adhesion to most building materials like concrete, glass, wood, stone and anodised aluminum
- Excellent extrusion, tooling and storage stability over wide range of climatic condition
- Excellent chemical resistance, suitable for sealing joints in swimming pools and chemically treated water
- Microorganism and fungus resistant
- Excellent heat resistance: suitable for application where exposure to temperatures >60°C take place.
- Resistance to cold: The sealant remains elastic even down to -40°C.

PHYSICAL PROPERTIES

SU 10	@ 27 ± 2°C
Movement Accommodation	50%
Specific weight	+/- 1.49 gr/cm ³
ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	

Tack free time, @ 77 °F (25°C) & 55% RH	2.5-3.5 hours
Cure Rate	2-3 Mm/day
Service temperature	-40 to 80°C
Shore A Hardness ASTM D2240 / DIN 53505 / ISO R868	27
Modulus at 100% elongation ASTM D412 / EN-ISO-527-3	0.3 (N/mm ²)
Elongation ASTM D412 / EN-ISO-527-3	>700%
QUV Accelerated Weathering Test (4hr UV, at 60°C (UVB- Lamps) & 4hr COND at 50°C) ASTM G53	Passed (After 2000hr)
Thermal Resistance (100 days, 80 C) EOTA Tr011	Passed
Toxicity	No restrictions after full cure
Resilience DIN 52458	>90%
Hydrolysis (8% KOH,@15 days 50°C)	No elastomeric property change
Hydrolysis (H ₂ O, 30cycle 60-100°C)	No elastomeric property change
HCl (PH=2, 10 days @RT)	No elastomeric property change
Adhesion to concrete ASTM D4541	> 20 (> 2) kg/cm ² (N/mm ²)

COVERAGE ESTIMATES

Pack size
600 ml sausages

Coverage

WIDTH	5mm	10mm	15mm	20mm	25mm
DEPTH					
5mm	24	12			
10mm			4	3	2.4
15 mm					1.6

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COLOURS

Available in GREY colour.

APPLICATION INSTRUCTIONS

Surface Preparation

The joint edges must be dry, clean, structurally sound, and free from oil, grease, dust and other barrier materials which would hinder the bond to the substrate.

Note: Use of polyethylene closed cell backer rod is recommended to ensure proper joint depth and prevent three sided adhesion. Masking tape may be fixed along the length of the joint to obtain neat lines. Ensure to remove the masking tape when the sealant is still soft.

Application

A conventional sealant application gun is required to facilitate easy and uniform application of SU 10. Cut open the sausage at one end and place it in the gun. Place the nozzle of the gun at the bottom of the joint and fill the entire joint. Continue with a steady flow of sealant to avoid air entrapment. The sealant surface should be tooled smooth using a spatula dipped in soap water to create a concave surface.

CLEANING

SU 10 can be removed from tools and equipment by using any solvent like toluene or xylene immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

SU 10 has a shelf life of 12 months if kept in a dry, clean store at temperature not exceeding 5 - 25°C in an unopened sausage. The product should be protected from frost, away from direct sunlight and sources of heat. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%

PRECAUTIONS

During application the following precautions should be observed: Always wear gloves and eye/face protection as necessary. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL

Disposal of empty packaging should be in accordance with local waste disposal authority regulations. For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

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