

Duraflex 100 – POLYURETHANE SEALANT



DESCRIPTION

Duraflex 100 is a one component sealant, gun grade, chemical curing polyurethane resin based joint sealant that cures to a tough, durable flexible material, with strong adhesion to most common construction materials.

APPLICATION AREA

For joints where precast concrete assembling
For joints or gaps connecting dissimilar substrates e.g.,
Vinyl to concrete, Brick, GRC, Fiberglass,
Aluminium to EIFS, Aluminium Frame, Window Perimeter,
Wood Stairs, Metal frame, Metal sheet
Expansion joints, Curtain Wall construction, exception of glass curtain.
For applications that require both paint ability and adhesion to non-porous substrates

ADVANTAGE

Good Durability, Paintable
Remain flexible throughout
Excellent workability -easy, quick to apply
Low modulus, Non-staining
Non primer on most substrates

PACKAGING COLOR

Sausage 600 ml White, Grey, Black

TECHNICAL DATA

Product declaration	ASTM C920-Type S, Grade NS, TTS-S-00230C, Type II, Class A
Composition	Polyurethane Base
Density at 20°C	1.17 kg/l
Solid content	94%
Sagging	None
Skin time at 23°C and 50% HR	120 min
Cure time at 23°C and 50% HR	2.0 – 3.0 mm/ 24h
Hardness Shore A (Cured) ASTM C661	~ 25
Elongation rate ASTM D-412	~ 800 %
Movement ASTM C719	± 25 %, ± 50 %
Modulus at 100% elongation ASTM D-412	~ 30 psi (0.23 N/mm ²)
Elastic recovery	~ 70 %
Application temperature	5°C to 40°C
Temperature resistance	0°C to 80°C
Resistance to dilute acids and bases	Average

UV resistance	Excellent
Water and salt spray resistance	Excellent
Compatibility with paints	Water based: yes, Solvent based: carry out tests
Shelf life	12 months in from date of production
Storage condition	The product must be stored in original, unopened, and undamaged packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.

INSTRUCTIONS

SUBSTRATE PREPARATION

The substrates must be clean, dry, free of dust, oil grease and any other contaminants. Clean by grinding, sand blasting or wire brushing to expose a sound surface free from contaminants.

JOINTING

The joint dimensions must be designed to suit the movement capability of the sealant. A width to depth ratio of 1:1 must be maintained. Joint widths less than 6 mm are generally for interior connection joints or crack control joints and therefore considered as non-movement joints. All joints must be correctly designed and dimensioned in accordance with the relevant standards and codes of practice before their construction. The basis for calculation of the necessary joint widths are:

Joint Width (mm.)	Width : Depth Ratio
For 6 to 12 mm. joint width	Depth shall be 1:1 (equal)
For 12 to 50 mm. joint width	Depth shall be 2:1 (half)

*Refer ASTM C1193

CONSUMPTION

Joint width	Joint depth	Joint length per 600 ml.
10 mm	10 mm	6 m
15 mm	15 mm	4 m
20 mm	20 mm	3 m
25 mm	12 mm	2 m
30 mm	15 mm	1.3 m

PRIMER

Normally priming is not required. It is recommended to conduct site testing for adhesion on trial areas before application

CLEANING

Tools should be cleaned with MEK or acetone before the sealant has completely cured. After curing, abrasion is necessary.

SAFETY

Not classified as hazardous. Read the material safety data sheet before use. Prevent eye contact. Ventilate application area. Wash thoroughly after handling. Persons who are hypersensitive to vapors of solvents, must wear approved respirators.

Remarks: The present data sheet deals with general information. It is necessary for the user to check beforehand the compatibility of the materials and the working techniques. Our products are of constant and superior quality and therefore can't be blamed for discrepancies due to their use or reaction that are of exclusive responsibility of the user. Our technical service is at the disposal of our clients for any additional information.

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Product Data Sheet
Duraflex 100
January 2025, Version 02.03