

Product Data Sheet



STARFIX PU-600

One Component, High Modulus, Moisture Cured, Elastomeric Polyurethane Sealant

Uses:

- Termination of Waterproofing Membranes
- Pre-Cast Panel Joints
- Construction and Expansion Joints
- General elastic Adhesive for various materials
- Movement and Static Joints

Product Description

STARFIX PU-600 is a single component, moisture curing, high modulus elastomeric joint sealant based on polyurethane. Suitable for movement and connection joints for indoor and outdoor applications. STARFIX PU-600 is a paintable weather-resistant sealant with outstanding UV resistance. It offers versatile usage - Both as sealant and adhesive in the construction industry for various substrates, including concrete, steel, wood, and many others.

Advantages

- Possesses permanent elasticity
- Paintable with non-solvent or water-based paints after curing in static joints (i.e., around door perimeters).
- Movement accommodation factor $\pm 30\%$ excellent adhesion.
- No shrinkage & Excellent UC resistance (No cracks or glaze)
- Resists chemical attack by chloride and sulphate ions present in the ambience
- Excellent adhesion to all common concrete substrates.
- No sagging (Thixotropic) – No stain

Standard Compliance

- ASTM C920 Type S, Grade NS, Class 25, use T1, NT, A, and M
- ASTM C1183
- ASTM C 1193 (Guide for usage of Sealants)

Technical Properties

STARFIX PU-600	Typical Values @ Laboratory Conditions
Available colors	Standard: White, Grey, Beige
Skin Time (RH 65% @ 20°C)	5 min
Density	Approx.. 1.16 Kg/ltr
Elongation @ break	Approx.. 400%
Movement Accommodation Factor (MAF)	$\pm 27\%$
Application Temperature	- 10 to + 70 °C
Shore A hardness @ 28 days	28
VOC content (40 CFR 59 – EPA Method 24)	< 750 g/l
Continuous Immersion Test (ASTM C 1247 - 09) for Movement Cycles and Extension & Contraction Cycles	No adhesive or cohesive failure

Product Data Sheet

Application

Surface Preparation

The surface should be clean, dry, sound and free from oil, grease and wax contamination. Cement laitance, loose particles, mold release agent or curing membranes must be removed.

Before positioning a bond breaker, check the expansion joint filler to ensure it is tightly packed with no gaps or voids at the base of the sealing slot.

The use of a bond breaker is not required in expansion joints prepared with cellular polyethylene joint filler, backing rod. For construction or contraction joints, use a bond breaker tape or back-up strip.

Priming

Priming is normally not required on good quality concrete substrates.

Application

STARFIX PU-600 application should follow standard concrete joints practices; Sealants need either backing rod or joint breaker tapes to prohibit 3 point adhesion and allow movement freedom. STAR Technology refers to ACI 224.3-95 for joint design.

Standard Joint Design:

Joint Distance (m)	2	2 – 3.5	3.5 – 5	5 – 6.5	6.5 - 8
Joint Width	15	20	25	30	35
Min Joint Width	10	15	20	25	30
Joint Depth	8	10	12	15	15

Joint Size Suitability:

Joint Width	6mm to 20mm – Single Application
Joint Depth	Maximum 10mm on porous substrate and max 6mm on non-porous substrate
Width : Depth	1 : 1

Cut and remove the end of the “Sausage” and place the it into the application bulk gun. Fit the nozzle and cut at 45 degrees to a suitable size for sealing the joint. Eject the sealant firmly into the joint. Check within 5 minutes of application to ensure good contact between the sealant and the substrate.

Curing and protection

STARFIX PU-600 typically cures within 24 to 48 hours at room temperature and average humidity conditions. However, curing time can vary based on temperature, humidity, and the sealant's depth in the joint.

Cleaning

Remove **STARFIX PU-600** from product from tools, equipment, and mixers with STAR Solvent before the initial set. Cured material can only be removed mechanically.

Packing & Coverage

STARFIX PU-600 is packed in 600 ml “Sausages”.

Joint Size in mm	Yield in m per “Sausage”
6 x 6	14 – 16
9 x 6	9 – 10
12 x 6	6 – 7
15 x 10	3 – 3.5
25 x 12	1.5

Stated consumption data are for general guidance. Actual consumption depends on the nature of substrate, method of application, and wastage.

Shelf Life & Storage

The original sealed Box of **STARFIX PU-600** has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place below 35°C.

Health & Safety

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

STARFIX PU-600 is not considered hazardous – But contains Isocyanate.

For detailed 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, toxicological, and other safety-related data.

For complete Health and Safety instructions and information, please refer to STAR MSDS.

Product Data Sheet

Additional Information:

STAR manufactures a wide range of construction chemicals and specialty products for various applications divided into the following product sections:

1. **Waterproofing Products**
2. **Sealants, Grouts, and Joint Fillers**
3. **Adhesives**
4. **HVAC – Adhesives, Coatings & Sealants**
5. **Flooring Products**
6. **Industrial Adhesives (i.e. Paper Industry)**
7. **Accessories**

STAR Technology provides various technical information such as detailed method statements, specification clauses, application manuals and technical support both in contractors and consultant's offices as well as construction sites.

For further information on these products and systems kindly visit our website or contact your local STAR representative