

Product Data Sheet



STARFIX WN

Single Component, UV Stable, High Modulus, Neutral Curing Silicone Sealant

Uses:

- Sealing External and Internal connections and dynamic expansion joints
- Curtail Wall and Metal Cladding Facades
- Joints between Glazing and support structures
- Perimeter Caulking such as Windows, Doors and Panels

Product Description

STARFIX WN - Weather Neutral in a single component, UV stable, high modulus neutral-curing silicon sealant exhibits excellent weather resistance and adhesion to porous and non-porous substrate. It cures at room temperature when exposed to moisture and forms like permanent flexible silicone rubber. Suitable for use in hot and tropical climatic conditions.

Advantages

- Non-corrosive to metals and exhibits excellent resistance to aging
- Extremely resistance to sunlight, rain, snow, ozone and temperature extremes. Excellent resistance to Fungal and Bacterial
- Quick curing – Non Shrink properties
- Highly – Permanent Flexible
- Excellent adhesion to wide range of substrate without primer.
- Excellent recovery from extension and compression

Standard Compliance

- ASTM C920
- ASTM D1475

Technical Properties

STARFIX WN	Typical Values @ Laboratory Conditions
Available colors	Black, White, Grey
Physical Appearance	Non Sag Paste
Specific Gravity (g/cm ³)	Approx.. 1.38 + 0.02
Tack free time (min)	10 (Approx.)
Skin Over time (min)	5 (Approx.)
Depth Cure(mm)	< 3.0
Hardness (Shore A)	35 - 40
Tensile Strength (Kg/Cm ²)	13.5 – 16.5
Elongation (%)	300 - 400
Modulus at Elasticity (Mpa)	0.750 – 0.950
Service Temperature (°C)	-5 to +150
Application Temperature (°C)	5°C to 40°C

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Application

Surface Preparation

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

Application

Non-porous substrate must be thoroughly clean with a suitable cleaning solvent using the two-cloth method, using one cloth dampened with the cleaning product to lift contaminants and a second clean dry cloth is used to remove any cleaner residue.

Sealants should be selected and installed in line with ASTM C1193 Standard Guide for use of Joint sealant. Substrate compatibility test is always recommended.

Place masking tape, if required. Masking tape has to be removed skin formation time.

Substrate compatibility test is always recommended before applying. In all cases, make sure the joint design is correct. Proper joint design minimizes stresses on the sealant.

Select appropriate backing rod with respect to joint design. Fix the nozzle to the cartridge and cut down to the required dimension and extrude the sealant into the gap continuously. After application, remove the excess sealant tool with spatula (Immersed into soapy water) before skin formation.

Immediately tool sealant after application and before skin formation. Tooling of sealant should be done in one continuous stroke. Remove masking tape immediately after tooling is completed.

Ensure to install backing rod, joint filler or spacer to achieve nominal W:D ratio.

Joints less than 12 mm wide, W: D ratio shall be 1 : 1 Joints greater than 12 mm wide, W:D ratio shall be 2:1

LIMITATIONS

The product is not recommended for applications with permanent contact with solvents such as aromatic solvents, organic acids, concentrated alkalis and concentrated acids, chlorinated hydro-carbons and this material is not paintable In cases of other chemicals contact our Technical Service.

Not to be used in contact with sensitive metals such as lead, copper, brass, zinc, carbon steel, galvanized iron or magnesium as corrosion may occur during acetic acid release/sealant cure. Substrate Compatibility test is always recommended before use.

Curing and Protection

Uncured Sealant:

Excess uncured sealant should be removed carefully using a soft scraper. Removed using a cloth just moistened with white spirit or soapy water. Repeat using another clean cloth moistened with white spirit or soapy water one continuous stroke. Remove masking tape immediately after tooling is completed.

Cured Sealant:

Cut away excess cured material with a very sharp knife. Do not use solvent to remove product from skin. Soap and water should be used

Packing

STARFIX WN is packed in Standard Cartridges, or 200 ltr drums.

Shelf Life & Storage

The original sealed Box **STARFIX WN** has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place below 25°C.

Health & Safety:

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

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.

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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