

Product Data Sheet



STARBOND GP - General Purpose One Component, High Performance, Acid / Moisture Cure, Elastomeric Silicone Sealant

Uses:

- Sanitary Installations (Bathtubs, Washbasins, Kitchen)
- Aluminum, Glass, Window and Door Installation
- Air-Conditioning & Refrigeration
- General elastic Adhesive for various materials
- Non structural Glazing
- Steel and Painted Metals, Granite, Ceramics, Concrete, Bricks and various types of Plastics

Product Description

STARBOND GP is a high quality one component, acid-curing silicone sealant. It cures at room temperature when exposed to atmospheric moisture to form permanently flexible silicone rubber. It has excellent resistance to bacterial growth. It is design for extremely hot climate. Exhibits exceptional resistance to shrinkage, aging and water.

Advantages

- Possesses permanent elasticity
- Excellent movement accommodation & adhesion.
- No shrinkage & Perfect UV resistance (No cracks or glaze)
- Resists chemical attack by chloride and sulphate ions present in the ambience
- Excellent adhesion to all common sanitary substrates.
- No sagging (Thixotropic) – No stain
- Excellent adhesion to Glass, Plastics, Ceramic Tiles, PVC Boards and most of porous substrates.

Standard Compliance

- ASTM C920
- ASTM D1475

Technical Properties

STARBOND GP	Typical Values @ Laboratory Conditions
Physical Appearance	Colored Thixotropic Sealant
Available Colors	Black, White, Transparent
Specific Gravity, g/ml (ASTM D 1475)	0.97-1.01
Tack free time, min. (ASTM C679)	approx. 10
Skin Over time, min. (ASTM C679)	approx. 5
Depth Cure, mm @ 24 hrs @ +23°C/50% RH	2.5
Hardness Shore A (ASTM D 2240-15)	2 3- 26
Tensile Strength, Kg/Cm ² (ASTM D 412-16)	11.5 - 13.5
Elongation % (ASTM D 412-16)	>350 %
Modulus at Elasticity, MPa (ASTM D 1784-20)	>0.5
Service Temperature, °C	-5 to +150
Application Temperature, °C	5 to 45

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.

Cracks need to be chased – Concrete surface (Honeycombs) needs to be repaired with a suitable product. Fill surfaces irregularities with a suitable product. Maximum moisture content should not exceed 6%.

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

STARBOND GP 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 “Cartridge” and place it into the application 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

STARBOND GP 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 **STARBOND GP** from tools and application equipment with STAR Solvent before the initial set. Cured material can only be removed mechanically.

Packing & Coverage

STARBOND GP is packed in standard cartridges.

Joint Size in mm	Yield in m per “Cartridge”
6 x 6	5
9 x 6	4
12 x 6	2
15 x 10	1.5
25 x 12	1

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 **STARBOND GP** 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.

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