

# ELASTOTAN

## DESCRIPTION

ELASTOTAN is a single-component, moisture cured silicone sealant, for connection and expansion joints in the construction industry. It cures at room temperature to produce a flexible low modulus elastomeric seal. Once cured it has a movement capability of  $\pm 50\%$  over a wide range of temperatures.

## CHARACTERISTICS

ELASTOTAN sealant combines the advantages of a low modulus elastomeric sealant (minimum strain on joint surfaces) adhesion on most construction materials including porous substrates. Its curing characteristics enable easy application and tooling of the product. **Mechanical properties and adhesion are not affected by prolonged exposure to sunlight, rain, snow or ozone.** ELASTOTAN sealant can be used on concrete, metal, glass, coated glass, vitreous surfaces, painted or unpainted wood, PVC, polycarbonates etc.

## TYPICAL USES

ELASTOTAN has been specifically developed for jointing or bonding and waterproofing in building and industrial applications such as:

- Weather sealant in structural glazing applications.
- Weather sealant in curtain walls and building facades.
- Perimeter joints around windows or doors.
- Glazing joints on aluminum, wood, PVC etc.
- Joints on roofs, chimneys.
- Venting or gutter joints.

## MECHANICAL PROPERTIES (ASTM C412)

- Tensile Strength: 1,6 Mpa (apx.)
- Elongation at break: 700% (apx.)

## TECHNICAL PROPERTIES

- Specific Gravity, approx.: 1,34
- Sag, Slump (ASTM D2202): No sag
- Skin over time : 7-25 min
- Cure time  
approx.: 2-3 mm/1st day  
7-9 mm/7 days
- Service temperature range: -50 to +150 °C

- Joint movement capability (ASTM C 719):  $\pm 50\%$
- Hardness: 25 (apx.)
- Elastic recovery: 95% (apx.)

## APPLICATION PROCEDURE

**Joint preparation:** The joint face to be bonded or sealed must be clean, dry, and free from dust, oil, grease, old sealant, and any traces of contaminant that may affect adhesion must be removed. Surface should be degreased with solvent using a clean cloth. To remove dust, use oil-free compressed air.

**Priming:** ELASTOTAN sealant does not require primer on most common substrates used in buildings. In cases of expansion joints with porous substrates (concrete), PRIMER VL is recommended. The sealant is applied after the primer has completely dried (2-3 hrs to 24 hrs depending on temperature and moisture or when the primer is dry and tack free).

**Joint dimensions:** The movement capability of the sealant as well as local regulations must be considered. Joint width should be twice the depth when the width is bigger than 20mm and equal to the depth when the width is smaller than 20mm. The width of the joints must not be less than 5 and bigger than 50mm.

**Sealant application:** For good performance it is essential that the sealant be only bonded to the two facing sides of the joint. To achieve this, install a backup material (closed cell polyethylene or open cell polyurethane foam). Apply the sealant in a continuous operation making sure that all air pockets or voids are eliminated. Tool the sealant with light pressure to spread the material against the joint surfaces.

This operation should be made with a dry spatula before skin formation occurs. Excess uncured sealant should be wiped and cleaned with a commercial solvent such as white spirit. Cured sealant can only be removed by abrasion.

## PACKAGING

In plastic cartridges of 0,28 Lt and sausages 0,6 Lt.

## COLOURS

White, Grey.

## LIMITS OF USE

ELASTOTAN must not be used for jointing aquariums or swimming pools.

## **STORAGE AND SHELF LIFE**

ELASTOTAN sealant has a shelf life of 12 months from its date of manufacture (the manufacture date is shown on the packaging) under normal storage conditions.

### **Warning to users**

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