DRIZORO® Construction Products

# MAXFLEX® 600

## NEUTRAL RETICULATION SILICONE-BASED JOINT SEALANT

### DESCRIPTION

***MAXFLEX®* *600*** is an one-component, silicone-based, elastomeric sealant with neutral reticulation. Product has a fungicidal treatment and is supplied in several colours.

### APPLICATION FIELDS

- Sealing of expansion and control joints in heavy and light pre-fabricated panels or pre-cast units, as well as sealing jobs in concrete and traditional masonry.
- Waterproofing of joints in façade panels, curtain walls, exterior glazing, etc.
- Sealing of joints between door and window frames, etc.

### ADVANTAGES

- Suitable for vertical uses. Good adhesion on the most common construction materials: concrete, glass, aluminium, steel, PVC, wood, etc. No primer is required.
- Easy to use. One-component and ready to apply.
- Wide range of colours for decorative finishing.

### APPLICATION INSTRUCTIONS

**Dimensions of joints**

***MAXFLEX®* *600*** sealant can be used for joints wherein the minimum and maximum width should be about 8 mm and 25 mm, respectively. For general proposes, depth of the sealant should be about the half of the width of the joint, with the exception of under 15 mm joints, where depth and width must be equal. For expansion joints, width of joint should be four times than movement expected.

To seal deep joints, it is advisable to use a closed cell polyethylene backer rod, such as ***MAXCEL®*** (Technical Bulletin N.: 48) with a diameter 25% larger in diameter than the width of the joint. To maintain the sealant depth, install the backer-rod by compressing and rolling it into the joint gap. Do not prime the backer-rod.

**Surface preparation**

Surface of joint to be sealed must be structurally sound and clean, free of dust, coatings, efflorescences, oil, grease, gypsum or any foreign material that could affect to adhesion. Substrate should be provided with a slight roughness and must be dry. If necessary, cleaning with mechanical means such as grinding, sandblasting or wire brushing or with non-grease solvents can be used for removing greases and oils.

To prevent staining the edges of the joints and provide a better finish, it is advisable to place masking tape on either sides of the joint before applying the primer or the sealant.

**Application**

***MAXFLEX®* *600*** cartridges and bags are ready to use using a caulking gun with a properly sized nozzle. Do not open product container until all previous jobs have been completed.

During application, press the nozzle against the edges of the joint and against the bottom to prevent air bubbles. For thin joints, sealant should be applied in a single pass from the deepest point to the surface. In wider joints, it should be applied in three steps, the first two,

on the edges of the joint and the third, filling in the centre.

Finally, to smooth over the surface, soapy water can be used. Sealant application is finished by removing the masking tape before starting the curing process for the product.

**Application conditions**
Do not apply with temperatures below 5 ºC or if lower temperatures are expected during the 24 hours following the application of the sealant. Do not apply on frozen or frosted surfaces or when relative humidity for the air is higher than 90 %. Surface and air temperature must be at least 3 ºC higher than dew point during the application and curing process.
Do not apply if rain is expected within 24 hour after application.

**Curing**
***MAXFLEX® 600*** can be painted over once it has cured completely, allow a curing time of at least 3 days (20°C and 50% R.H.). Applications carried out at lower temperatures with high humidity or poor ventilation will require longer drying and curing times. Preferably use solvent-free elastic coatings (acrylic or vinyl dispersion paints) and make a previous test before on-site.

**Cleaning**
Tools and equipments can be cleaned with ***MAXSOLVENT®*** immediately after use. Once the product hardens, it can only be removed by mechanical methods.

## CONSUMPTION

The estimated consumption for ***MAXFLEX® 600*** depends of joints and can be calculated from:

**Consumption** (ml of sealant/lineal metre of joint) = Width of the joint (mm) * Depth of the sealant (mm)

For a 10 x 10 mm joint, the estimated consumption is about 100 ml per 1 m length of joint. These figures may vary depending on the roughness, the surface conditions and the application procedure used. A preliminary test on-site will determine the coverage exactly.

Coverage for a 310 ml cartridge of ***MAXFLEX® 600*** can be estimated form:

**Coverage** (lineal meters of joint/300 ml cartridge) = 310 * 1/Width of the joint (mm) * 1/Depth of the sealant (mm)

## IMPORTANT INDICATIONS

- Do not apply with temperatures below 5 ºC.
- Avoid trapping air in the joint during application of the sealant.
- Protect the sealed joints against contact with water or solvents, for at least 24 hours after application of the sealant.
- When a finish coating is required, observe the total curing time for the sealant and use an elastic coating in order to withstand joint movements.
- For further information and other uses not specified in this Technical Bulletin, consult our Technical Department.

## PACKAGING

***MAXFLEX® 600*** is supplied in 310 ml plastic cartridges and 600 ml plastic bag/sausages. It is available in dark grey, white, grey, brown, beige, bronze and black.

## STORAGE

Twelve months in its original unopened containers in a dry and covered place, with temperatures between 5 °C and 30 °C. Protect against direct sunlight and frost.

## SAFETY AND HEALTH

If the product comes in contact with the eyes, rinse immediately with clean water without rubbing and seek medical assistance. In case of skin contact, wash with abundant water and soap. If ingested, seek immediate medical assistance. Do not induce vomiting.
For further information, Safety Data Sheet for ***MAXFLEX® 600*** is available by request.
Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

## TECHNICAL DATA

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| **Characteristics of the product** | |
| Density (g/cm$^3$) | 1,4 |
| **Conditions for application and curing** | |
| Temperature for application and curing (°C) | From +5 to +40 |
| Skin over time at 23 °C and 50% R.H. (minutes) | 15 |
| Tack free time at 23 °C and 50% R.H. (minutes) | 30 |
| Curing rate at 23 °C and 50% R.H. (mm/24 hours) | 2,5 |
| **Characteristics for the cured product** | |
| Tensile strength (MPa) | 0,35 |
| Elastic modulus at 100 % (MPa) | 0,30 |
| Elongation at break (%) | 400 |
| Elastic recovery (%) | > 70 |
| Shore A hardness | 20 |
| Service temperature range (°C) | From –50 to +150 |
| **Consumption** | |
| Consumption* per 10x10 mm joint (ml of sealant/meter of joint) | 100 |

(*)These figures may vary depending on the roughness and the surface conditions. A preliminary test on-site will determine the coverage exactly.

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. ***DRIZORO®, S.A.*** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.

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