

## TECHNICAL DATA SHEET (TDS)

### WEATHERSEAL SILICONE

#### 1 – DESCRIPTION

**WEATHERSEAL SILICONE** is a premium performance neutral cure silicone sealant specially developed for weather sealing and glazing applications in curtain wall and building facades. It forms a strong weatherproof seal on common building materials.

#### 2 – PROPERTIES

- Conforms to ISO EN 11600-F-20LM.
- Neutral cure.
- Suitable for use on most common porous and non-porous building materials.
- Noncorrosive. It will not react with or corrode common building materials.
- Not affected by exposure to sunlight, rain, snow and maintains this resistance over many years.
- Resistant to temperature extremes.
- 100% Silicone, solventless.
- Almost odourless.
- Fast curing.
- **Conforms to the requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.**
- **French A+ indoor air quality marked.**

#### 3 – APPLICATION AREAS

- General weather sealing and glazing in building and curtain wall facades.
- Sealing of window frames.
- Mounting of window frames and doors.
- Sealing applications of marble, stone and other porous substrates.
- Sealing of connection and expansion joints.

#### 4 – INSTRUCTIONS

- Ensure that surfaces to be sealed are clean, dry and grease free.
- The application temperature must be between +5 °C and +40 °C.
- In order to reduce the deformations of the joints, their depth must be much less than their width, minimum dimensions are 5x5 mm, for wider joints the depth should be preferably half of the width and it is adjusted by the use of a backup material.
- After the application, the sealant must be tooled with light pressure within 5 minutes to spread the material against the joint surfaces and to obtain a professional finish.

- Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed barely mechanically.
- Recommended joint widths are >10 mm and < 35 mm.
- Joint width and depth ratio should be about 2:1.

#### Consumption (approx.)

Joint Width	10mm	15mm	20 mm
Joint Depth	6mm	8mm	10 mm
Efficiency /310 ml	5 meters	2.5 meters	1.5 meters

#### 5- STORAGE AND SHELF LIFE

- The shelf life is 15 months if stored in unopened-original package at room temperature.

#### 6- PACKAGING

Product	Volume	Package
Transparent	310ml	24
White	310ml	24
Black	310ml	24
Grey	310ml	24
Aluminum	310ml	24
White (Sausage)	600ml	12
Black (Sausage)	600ml	12
Grey (Sausage)	600ml	12

#### 7- RESTRICTIONS

- It should not be applied on frost and wet surfaces.
- Application surfaces temperature should not exceed +50 °C.
- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Not over paintable.

#### 8- SAFETY

Inhalation of the sealant vapour for long periods must be avoided. The application area must be ventilated properly. The uncured sealant must not be contacted for long periods. Cured silicone rubber bears no risk to health.

## 9- TECHNICAL PROPERTIES

<b>Basis</b>	: Silicone Polymer(Oxime)	
<b>Curing System</b>	: Neutral	
<b>Density (Transparent and Aluminum)</b>	: 1.02± 0.03 g/ml	(ASTM D 792)
<b>Density (Other Colors)</b>	: 1.20± 0.03 g/ml	(ASTM D 792)
<b>Hardness Shore A (Transparent and Aluminum)</b>	: 17-25 (after 28 days)	
<b>Hardness Shore A (Other Colors)</b>	: 22-32 (after 28 days)	
<b>Tensile Strength</b>	: ≤ 0,4 N/mm <sup>2</sup> (23°C and 50% R.H)	(ISO 8339)
<b>Skin formation</b>	: 5-10 min. (23°C and 50% R.H)	
<b>Curing Rate</b>	: Min. 2,5 mm/day (23°C and 50% R.H)	
<b>Elongation At Break (Transparent and Aluminum)</b>	: ≥ 400%	(ASTM D412)
<b>Elongation At Break (Other Colors)</b>	: ≥ 350%	
<b>Elastic Recovery</b>	: Approx. 100%	(ISO 7389)
<b>Sagging</b>	: 0 mm	(ISO 7390)
<b>Temperature Resistance</b>	: -60°C to +180°C	
<b>Application Temperature</b>	: +5°C to +40°C	

## 9- LEGAL NOTE

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.