



# Silirub 612

Revision: \$%\$\$\$% Page 1 from 2

## **Technical data**

Basis	Polysiloxane	
Consistancy	Stable paste	
Curing system	Moisture curing	
Skin formation* (20°C / 65% R.H.)	Ca. 12 min	
Curing speed * (20°C / 65% R.H.)	Ca. 2 mm/24h	
Hardness	30 ± 5 Shore A	
Density	Ca. 1,30 g/ml	
Elastic recovery (ISO 7389)	> 80 %	
Maximum allowed distortion	25 %	
Temperature resistance	-40 °C → 180 °C	
Max. tension (DIN 53504)	1,30 N/mm²	
Elasticity modulus 100% (DIN 53504)	0,50 N/mm²	
Elongation at break (DIN 53504)	> 700 %	
Application temperature	$5 ^{\circ}\text{C} \rightarrow 35 ^{\circ}\text{C}$	
Electrical Properties – Cured 7 days at 23°C and	Dielectric Strength (ASTM-D149)	20 kV/mm
50% ± 5% Relative Humidity:	Volume Resistivity (ASTM-D257)	1.3 X 10 <sup>15</sup> Ω-cm

<sup>(\*)</sup> these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

## **Product description**

Silirub 612 is a high-quality, neutral, elastic one-component silicone based joint sealant.

## **Properties**

- Good adhesion on typical photovoltaic module components.
- Very easy to apply
- · Colourfast and UV resistant
- · Permanently elastic after curing
- Low odour
- Weatherproof

## **Applications**

- Bonding and sealing of photovoltaic module components.
- Frame sealing and junction box bonding.

## **Packaging**

Colour: white Packaging: 300 ml cartridge

## Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

## **Substrates**

Substrates: a variety of porous and non-porous materials

Nature: clean, dry, free of dust and grease. Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. No primer needed for non-porous substrates.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate. This is highly recommended on PVC and other plastics.

## Joint dimensions

Min. width for joints: 5 mm Max. width for joints: 30 mm Min. depth for joints: 5 mm

Recommendation sealing jobs: joint width = 2

x joint depth.

Remark: This technical data sheet replaces al previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

 Soudal NV
 Everdongenlaan 18 - 20
 BE-2300 Turnhout

 Tel: +32 (0)14-42.42.31
 Fax: +32 (0)14-42.65.14
 www.soudal.com





## Silirub 612

Revision: 01/02/2017 Page 2 from 2

## **Application method**

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material

## **Health- and Safety Recommendations**

Take the usual labour hygiene into account. Consult the packaging label for more information.

#### Remarks

- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA or Silirub+ S8800 for this application.
- Given the great diversity of possible surfaces it is recommended to do an adhesion test prior to application.
- In an acid environment or in a dark room, white silicone can slightly turn yellow.
   Under the influence of sunlight it will turn back to its initial colour.
- When finished with a finishing solution or soapy solution, make sure that the surfaces are not touched by this solution. This will cause the sealant not to adhere to that surface. Therefore we recommend to only dip the finishing tool in this solution.
- We strongly recommend not to apply the product in full sunlight as it will dry very fast.

## **Environmental clauses**

Leed regulation:

Silirub 612 conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED® 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

## Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

Remark: This technical data sheet replaces al previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

 Soudal NV
 Everdongenlaan 18 - 20
 BE-2300 Turnhout

 Tel: +32 (0)14-42.42.31
 Fax: +32 (0)14-42.65.14
 www.soudal.com