



Silirub 614 PV

Revision: 15/02/2019

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Technical data

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|------------------------------------|---------------------------|
| Basis | Alkoxy |
| Consistency | Stable paste |
| Curing system | Moisture curing |
| Skin formation* (23°C/50% R.H.) | Ca. 15 min |
| Curing speed * (23°C/50% R.H.) | Ca. 2,2 mm/24h |
| Hardness** | 45 ± 5 Shore A |
| Specific Gravity | Ca. 1,50 g/ml |
| Max. tension | Ca. 2,0 N/mm ² |
| Maximum allowed distortion | 25 % |
| Max. tension (ISO 37)** | 2,1 N/mm ² |
| Elasticity modulus 100% (ISO 37)** | 0,65 N/mm ² |
| Elongation at break (ISO 37)** | > 500 % |
| Dielectric strength kV/mm | 18 |
| Non Flamability | UL94 V-0 |
| Application temperature | 5 °C → 45 °C |

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Silirub 614 PV is a high-quality, neutral, elastic one-component silicone based joint sealant.

Properties

- Good adhesion on typical photovoltaic module components.
- Very easy to apply
- Color fast and UV resistant
- Permanently elastic after curing
- Non-corrosive to metals.
- Primerless adhesion to many substrates
- Excellent electrical insulation properties

Applications

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

Packaging

Colour: white

Packaging:

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: rigid, clean, dry, free of dust and grease.

Surface preparation:

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.

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. Maintain adequate ventilation in the work place at all times.

Remark: This technical data sheet replaces all 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.



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Remarks

- Given the great diversity of possible surfaces, it is recommended to perform an adhesion test on both substrates prior to application.
- In an acid environment or in a dark room, a white sealant 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.
- Adhesion may be less successful on plastics such as polyethylene, polypropylene and so on.
- This product should not be applied on surfaces that are continuously immersed in water.

Environmental clauses

Leed regulation:

Silirub 614 PV 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.

| Substrates | Adhesion |
|--------------------------|-----------|
| Metal | |
| Copper | Excellent |
| Stainless steel | Excellent |
| Aluminum | Excellent |
| Steel | Excellent |
| Brass | Excellent |
| Plastic and Resin | |
| Epoxy resin | Excellent |
| Acrylic resin | Poor |
| ABS resin | Excellent |
| Phenolic resin | Excellent |
| Polyacetal | Poor |
| Polycarbonate | Excellent |
| Polyimide | Excellent |
| Polyethylene | Poor |
| Polypropylene | Poor |
| PBT | Excellent |
| PPS | Excellent |
| Polyester film | Excellent |
| PPO | Excellent |
| PPE | Excellent |
| Others | |
| Glass | Excellent |
| Ceramics | Excellent |
| Silicone | Excellent |

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