Technical datasheet

Silirub Color

Product description

Silirub Color is a high quality, neutral, elastic one-component joint sealant based on silicones.



Properties

- Available in all RAL Classic System colours
- Good UV resistance
- Impervious to mould, contains biocide with fungicidal action
- Easy to apply
- Low modulus
- Neutral curing
- Permanently elastic after curing
- Very good adhesion on many materials
- Very good resistance to ageing
- Not paintable
- Not suitable for natural stone
- MEKO free

Applications

- All usual building joints with high movement.
- Glazing and joint works.
- Expansion joints between many different construction materials.
- Sealing between uPVC, treated wooden and metal profiles and glass.
- Building- and construction joints
- Interior applications which are exposed to high relative humidity
- Sealing joints in sanitary rooms (bathroom) and kitchens.

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 9 minutes
Curing speed		ca. 2 mm/24h
Density		ca. 1.01 g/ml
Maximum allowed joint movement		± 25 %
Elasticity modulus		ca. 0.24 N/mm²
Elastic recovery	ISO 7389	> 80 %
Elongation at break	ISO 37	> 800 %
Maximum tension	ISO 37	ca. 1.00 N/mm²
Hardness		20 ± 5 Shore A
Application temperature		+5°C → +35°C

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Temperature resistance	-60°C → +180°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
  Silirub Color has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend to follow a pre-treatment procedure. Porous surfaces should be primed with Primer 150. If needed non porous surfaces can be prepared with a Soudal activator or cleaner (see Technical Data Sheet). When glazing: clean frame and glass surfaces that come into contact with sealant.
- Substrate types
  Silirub Color has a good adhesion to following substrates: all usual building substrates, glass, aluminium, wood, steel ST1403, concrete, brick, ceramic tiles, etc.. Silirub Color has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
  Apply the product with a manual, pneumatic or accu caulking gun.
- Cleaning method
  Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Cured product can only be removed mechanically.
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  Repair with the same material.

Compatibility

- Compatibility with glass
  Tests carried out in our laboratories show that the product is compatible with most edge seals of insulating double glazing and conventional PVB films. We cannot give a full guarantee though, seen the continuous modifications in these systems. We recommend a compatibility test for both double glass systems and laminated glass systems. Due to the large number of edge sealing systems on the market, it is impossible to test the compatibility of all combinations with glazing sealants.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 18 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Standards and certificates

- Conform to ISO 11600 F+G 25LM

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Joint dimensions

- Min. width for joints: 5 mm
  Max. width for joints: 30 mm
  Min. depth for joints: 5 mm
  Glazing applications:
  Top sealing = min. width 4 mm
  Depth at least 6 mm
  Min. width for connection joints around windows: 10 mm.
  Expansion joints: joint width 5-10 mm:
  Joint depth 5 mm. Joint width 10-30 mm: depth=1/2 * width.
  Recommended joint configuration for connection joints and joints subjected to shear: depth = width (min. 5 mm).

Environmental clauses

- Leed regulation: Silirub Color 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.

Remarks

- Do not use on natural stones like marble, granite,...(staining).
- A total absence of UV can cause a color change of the sealant.
- 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.
- We strongly recommend not to apply Soudal finishing solution in full sunlight as it will dry very fast in these circumstances. On certain surfaces Soudal finishing solution can cause staining. A preliminary test is always recommended.
  When finished with Soudal finishing solution, make sure that the adhesion 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 the finishing solution.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Do not use on polycarbonate.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap residues will stimulate the development of fungi.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.

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. It is general in nature and does not constitute any liability. 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. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.

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