

Code	Description	Size	Colour
132663	Pureseal Roof & Gutter NC Silicone Sealant	300ml	Clear

1. Description

Pureseal Roof & Gutter NC Silicone Sealant is a high-quality, neutral, elastic one-component sealant based on silicones.

2. Characteristics

- Very easy to apply
- Colourfast and UV resistant
- Permanently elastic after curing
- Very good adhesion on many materials
- Low odour
- Slow skinning time
- Corrosion free
- Primerless adhesion on many substrates that are not subject to immersion, water pressure or high stress movement capabilities

3. Technical Data

Base:	Polysiloxane
Consistency:	Stable Paste
Curing System:	Moisture Cure
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. 1,00 g/ml (transp) / Ca. 1,30 g/ml (colours)
Elastic recovery (ISO 7389):	> 80 %
Maximum allowed distortion:	25 %
Max. tension (DIN 53504):	1,30 N/mm ²
Elasticity modulus 100% (DIN 53504):	0,50 N/mm ²
Elongation at break (DIN 53504):	700 %
Temperature resistance:	-60 °C → 180 °C
Application temperature:	5 °C → 35 °C
VOC:	<1% (<1.41g/litre)

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

4. Applications

- All usual building joints with high movement.
- Expansion joints between many different construction materials.
- Joints in building products from aluminium and finished materials.
- Sealing between PVC, treated wooden and metal profiles and glass.
- Sealing in air-conditioning systems.
- Connection and expansion joints at roof works.
- Water and weather resistant sealing of joints, cracks and leaks in gutters and drain pipes.

6. Shelf Life

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

7. Building Product Information

Manufactured By Soudal NV
Distributed By Soudal Ltd

Relevant Building Code Clauses

- Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.1 (c) 5 years
- Clause E2 EXTERNAL MOISTURE: Performance E2.3.2.
- Clause E3 INTERNAL MOISTURE: Performance E3.3.3, E3.3.4, E3.3.5 and E3.3.6.
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

Contribution to compliance With NZBC

Performance B2.3.1 (b) 15 years and (c) 5 years: This product achieves these durability requirements and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Soudal product technical documents. Soudal maintains production & management systems in accordance within its ISO9001:2015 Quality Management System.

Performance E2.3.2: In accordance with E2/AS1. This product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification. soudal.co.nz. When used to seal flexible joints, as part of a roofing or wall cladding system, or around external openings, such as windows and doors, the product contributes to meeting the E2.3.2 weather-tightness requirements.

Performance E3: The product can be used to form impervious joints between sheet lining materials and also a joint between fixtures and lining materials in accordance with NZBC Acceptable Solution E3/AS1.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Soudal Product Technical Data Sheet and product Safety Data Sheet soudal.co.nz for further information if required.

7. Application Instructions

Application method: With manual- or pneumatic caulking gun.
Cleaning: Clean with Soudal Surface Cleaner or Gorilla Solvent Cleaner before curing.
Finishing: With a soapy solution before skinning.
Repair: With the same material

Substrates

Substrates: All usual building substrates, Various porous and non-porous surfaces such as wood, concrete, stone and other materials commonly used in construction. Galvanised metals, coated metals, glass, PVC.
Nature: Clean, dry, free of dust and grease.
Surface Preparation: Porous surfaces in water loaded applications should be primed with Soudal Primer 150. No primer needed for non-porous substrates.
There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates.

Soudal Ltd recommends a preliminary compatibility test to ensure that the user is satisfied with the result given.

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 = 2x joint depth.

Limitations:

- Do not use on natural stones like marble, granite (staining).
- Not designed for copper & brass based metals.
- Not suitable for bonding mirrors. Use Gorilla Mirror Fix for this type of application.
- Direct contact with the primary sealing of double glazing units (insulation) and the PVB-film of safety glass must be avoided.
- A total absence of UV can cause a colour change of the sealant. 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.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Primers are not a substitute for incorrect surface preparation but will improve the long term performance of the sealant if applied correctly in accordance with the technical data. It is the users responsibility to ensure that the adhesion of the cured sealant, on typical test joints on site before and during application, is sufficient to satisfy themselves that adequate adhesion is obtained.

Standards & Certificates

- Australia: Watermark Level 1 certificate Nr. 23300
- *LEED Regulation:* Pureseal Roof and Gutter NC 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

8. Maintenance and Inspection of Weather-Tightness Sealant Joints**Applies to the following joint types:**

- Linear joints
- Penetration seals

Inspection

Soudal recommends that the first inspection of joints is done 6 months following application, followed by an annual inspection. Normally this inspection is combined with the inspection of the painting. The most effective is to judge the joints during a colder season as building materials shrink the most under low temperatures, resulting in the widest joints. This period is best to judge if the sealants are still able to cope with the pressure, and if detachments appear.

During inspection specifically pay attention to:

Detachments in facades of buildings can result into leakage. When leakage is noticed but the exact cause and location is unclear, the exact spot should be found by testing. We have two methods for this test:

- Test with a (garden) hose. With a hose the facade can be sprayed. While doing this we work downward towards above, while the inside is checked on water entering the building. When no leakage is found this way, the possibility exists the leakage will only appear when rain and wind pressure are combined at the same moment. Wind pressure causes over pressure on the outside while under pressure on the inside appears. This can cause water to be sucked inside through very small openings. With higher building the water can be pushed up and find its way into buildings.
- Test with a smoke pipe. With a smoke pipe possible leakages can be identified more easily, especially when wind pressure occurs.

9. Health and Safety Recommendation

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

Remark

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email info@soudal.co.nz.***

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