



SILICONES TECHNICAL DATA SHEET

DESCRIPTION:

Konnect Roof & Gutter is a neutral-cure (non-acidic), weatherproof, UV resistant, flexible, non-corrosive silicone sealant. It is designed for sealing sheet metal or aluminium roofing, cladding, flashing, guttering, wall cladding or rainwater accessories and is suitable for use on brick, fibre cement, masonry, ceramic tiles, stone and fibrous cement sheeting. Pre-test on powder coated surfaces.

Not recommended for glazing applications, expansion joints with excessive movement, burst pipes or rusted guttering as a plug or seal, constant water immersion or sealing of aquariums.

FEATURES:

- Excellent adhesion properties
- Stays permanently flexible
- Joint Movement capabilities $\pm 25\%$
- Suitable for interior and exterior applications
- Unaffected by rain, snow, extreme temperature change
- Ultra violet resistant
- Suitable for water potable applications *
- Translucent & Grey tested to AS/NZS 4020 *
- Weather Proofing
- Clause B2 Durability: Performance B2.3.1 (b) 15 Years
- Excellent shelf life

RECOMMENDED USES:

- Plumbing Roofing applications
- Metal roofing systems
- Metal water tanks
- Spouting/flashing and downpipes
- Lap joints in Zinalume, Colorbond and other decorative sheet metal
- Skylights and metal and PVC flues and extraction units
- Pipe or sprinkler system penetrations
- Air conditioning ducting and sheet-metal fabrications
- General purpose adhesive and sealant for building materials such as steel, aluminium, glass, concrete, brick, Ceramic, Terracotta roof tiles.

APPLICATION INSTRUCTIONS:

Surface Preparation:

Surfaces to be sealed must be clean, dry and free of wax, grease, cutting oils or any loose of flaking materials. Use the two-wipe process for impervious substrates. Ensure the cloths are clean and changed frequently, and use a suitable cleaner/solvent such as Bostik R-40 (silicone) surface cleaner, IPA or 100% White Spirits.

To achieve satisfactory adhesion a primer may be required for some substrates. Consult Konnect for more information.



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Application:

- Use masking tape each side of joint to simplify clean up, to protect surfaces and to ensure a neat job.
- Use a closed cell polyethylene-backing rod 25% larger than the joint width, to control the depth of the joint where required.
- Cut nozzle at 45° angle to desired thickness. Cut opening on cartridge and fix nozzle. Insert cartridge into caulking gun. Hold gun at 45° angle with nozzle in contact with both sides of joint. Apply by pushing sealant ahead of nozzle, thus ensuring sealant is pushed firmly into place.
- Tool off / smooth before skin forms (within 5 minutes). Remove excess sealant immediately with a cloth dampened with mineral turpentine. If used, remove masking tape before skinning has started. (Cured sealant can be removed by trimming with a sharp blade).
- The incompatibility of some substrates may cause discolouration of sealant, poor sealant adhesion or long term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials occurs.

Coverage:

Approximately 16 lineal metres per 300ml cartridge based on an average joint size of 6mm depth and 3mm width

Setting Time:

Sealant will skin over within 5 minutes (subject to humidity in air – lower the humidity longer time to skin over and cure, high humidity shorter skin and cure time).

LIMITATIONS:

Konnect Roof & Gutter is NOT suitable for use in the following applications:-

- Totally confined spaces as the sealant requires atmospheric humidity to cure, it will not cure where it does not have access to atmospheric humidity.
- Aquariums
- Adhering Mirrors
- Structural Glazing
- Composite panels
- Under Water Applications (including swimming pools subject to substrate)
- Below Grade Applications
- All Stone (We recommend the completion of a stain testing program before using any sealant on stone)
- Horizontal walkways and trafficable areas
- Polycarbonate sheeting
- Sealant may discolour copper & brass.
- Do not clean or treat the sealant with materials, cleaning agents or solvents that may affect or discolour the sealant, particularly during product curing.
- This silicone is not paintable.

NOTE:

- Silicones are not always compatible with plasticised sealants, such as butyls. Also note that some backing rods and tapes contain bitumen or other agents that are incompatible with the silicone.

It is Important to Note:

Oxime silicone sealant will tend to display a slight colour shift with age.

Chemical exposure to certain agents such as chlorinated cleaning solutions (ie, bleach), chemical solvents, and the fumes of some paints (enamel or solvent – containing types where not fully dried) may tend to magnify this yellowing change particularly where the sealant is still curing.



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PROPERTIES:

Colour:	Various Colours	Hardness Shore A (ASTM D-2440)	20
Tooling / Skin Time:	5 minutes approx.	Tensile Strength (ASTM D-412)	1.5 MPa
Tack Free Time @20°C (ASTM C-679)	30 minutes approx.	Sag, Slump	0
Cure Time (to 10mm depth @23°C & 50% RH)	5-7 days	Specific Gravity	1.033
Application Range	+10°C to +40°C	Cure Method	Neutral -Oxime
Performance Range	-50°C to +170°C		

HEALTH & SAFETY:

Caution:

Full product safety information required for safe use is not included in this data sheet. Before handling, read the separate Material Safety Data Sheet (MSDS) and packaging for safe use. Always read the Technical Data Sheet and Material Safety Data Sheet (MSDS) before opening or using this product.

In case of product emergency refer to product labelling or MSDS and contact phone numbers. A copy of the product MSDS is available from www.konnectfasteningsystems.com.au / www.konnectfasteningsystems.co.nz

First Aid:

If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone Australia 131 126; New Zealand 0800 764 766)

**SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.
EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)**

PRODUCT DETAILS:

Item Number	Size	Colour
PRGG	300ml Cartridges	Grey
PRGT	300ml Cartridges	Clear