



PROFILED METAL ROOFING
SEAMSIL® 100
CUT EDGE CORROSION TREATMENT

The SEAMSIL® 100 System is a silicone based remedial treatment designed specifically to treat Cut Edge Corrosion on profiled metal sheets.

SEAMSIL® has excellent elastic and flexible properties to withstand normal surface movements and is unaffected by UV or extremes of weather and temperature.

SEAMSIL® has exceptional adhesion to prepared surfaces. It cures to provide a tough elastic seal and has a proven track record in corrosion control. The System can be used on both steel and aluminium substrates adhering to most coatings: - PVC, Pvf₂, etc. and most paint finishes.

All SEAMSIL® materials are formulated to be compatible with each other. Proprietary silicone products or other non-silicone mastics are not the same, and must not be used in conjunction with SEAMSIL® Sealants and paints.

Contractor Qualifications

The Contractor must be an approved and fully trained SEAMSIL® Qualified Applicator. It is the contractors' responsibility to inspect each section of the works to ensure that the correct steps have been taken as outlined in this specification document.

Giromax Technology Ltd. includes full training in the preparation and application of the SEAMSIL® system and will arrange an inspection of the works to monitor specification compliance and to assist the contractor. Typical inspections include DFT readings, adhesion testing and overall appearance.

The information contained herewith is provided as a general guide in good faith, but without responsibility for use of the product outside Giromax control. Users should undertake their own tests to determine product suitability. Individual project specifications can be produced following site inspection and assessment by Giromax Technology Ltd.

Patent N° 9321991
SEAMSIL® 100 Specification



Cutting Edge Technology

SEAMSIL® is a Registered Trade name of Delvemade Limited



SEAMSIL® Sealant is a single component Alkoxy curing silicone supplied in 310 ml cartridges, gun applied to seal between the upper and lower sheets of an overlap joint.



SEAMSIL® Basecoat is single component Alkoxy curing silicone suspended within a solvent carrier, supplied in 5kg containers for brush application.



SEAMSIL® Topcoat is a colour matched single component Alkoxy curing silicone suspended within a solvent carrier, supplied in 5kg containers for brush application

<i>Curing System:</i>	Alkoxy	<i>Colour:</i>	Various
<i>Shore A (Approx.):</i>	20	<i>ISO 9047:</i>	25
<i>Tensile Strength:</i>	1.6 N/mm ²	<i>Full Cure:</i>	14 Days
<i>Application Temp:</i>	+3°C/+60°C	<i>Shelf Life:</i>	12 mths
<i>Volume Solids:</i>	80% (±2%)	<i>Specific Gravity:</i>	1.40
<i>Movement Accom.</i>	± 50%	<i>Break Elongation:</i>	700%
<i>Temp. Resistance:</i>	-50°C/+100°C		

Delivery & Storage:

Materials shall be delivered in the manufacturers original, tightly sealed containers and unopened packages, clearly labelled with the manufacturers name, product identification, safety information, approvals and batch numbers. Store in a cool, well ventilated area. Keep containers tightly closed.

Environmental Conditions:

No application may proceed during inclement weather.

- The substrate must be free from ice, frost, surface moisture, visible dampness and any contamination.
- The air temperature must be above 3°C
- Surface to be 2°C above Dew Point.

Further Information:

For further information including Safety Data Sheets contact:



Specification: **Seamsil**® 100

Issue	Revision	Date
1	Origination	Apr 1994
4	Specification Review	Jan 2008

The following specification is given in good faith, without prejudice or liability. Product Technical and Safety Data must be observed at all times and are deemed part of this specification.

Surface Preparation



Remove all loose and flaking coatings to a firm feathered edge. Remove rust and white salts by very thorough cleaning (abrading) to Swedish Standard ST 3. Ensure substrate is keyed and not polished.

Thoroughly clean and dry the surface. Use Isopropyl Alcohol as necessary. Thoroughly dry the lap using a mechanical driven blower. Ensure all debris and grinding swarf is removed



before application of Seamsil. Remove non-adherent staining from the lower sheet. Perforated sheet ends may be prepared as above and the use of a flexible bandage may be considered.

Application of Seamsil Sealant, Basecoat & Topcoat

• Horizontal Sheet Overlaps & Flashing Joints

A sealed overlap can be achieved by gun applying the Sealant into the overlap, immediately over coating with the Basecoat followed by Topcoat when dry.

Gun apply SEAMSIL® Sealant, into the lap to form a complete bridged seal. Apply Seamsil Basecoat before the Sealant has cured (i.e. wet on wet). The upward brush movement of Basecoat should further force the Sealant into the lap joint allowing it to make full contact with both the exposed and underside surfaces of the top sheet's leading edge.

Apply one coat of SEAMSIL® Basecoat to all prepared surfaces ensuring coverage of all exposed steelwork. A minimum WFT of 220 microns will achieve a DFT of 175 microns. Apply to at least 1" [25mm] either side of the joint. Sealant and Basecoat must form a joint fillet between the laps that visually obscures the leading edge of the top sheet.

Where there is extensive sheet perforation or where excessive sheet movement splits the seal before full cure is achieved, a polyester fleece may be introduced into the SEAMSIL® Basecoat. The fleece should be installed within 30 minutes of applying the Basecoat ensuring full contact is made over the whole profile. Ensure the fleece is fully 'wetted' into the Basecoat using brush or roller.



Allow the Basecoat to reach a 'touch dry' state, normally overnight but which will vary with weather conditions. Apply one coat of SEAMSIL® Topcoat (coloured to the sheet), min WFT 235 microns to achieve a minimum DFT of 175 microns. Overlap the Basecoat by approx ½" [13mm]. Lap joints must be a minimum of 3" [75mm] wide (1½" [37mm] either side of the joint) and total a minimum DFT of 350 microns.

• Gutter Overhang, Eaves & Flashing Edges

Apply one coat of SEAMSIL® Basecoat as per sheet overlaps to a minimum DFT of 100 Microns. Allow to reach 'touch dry' state, normally overnight but which will vary with weather conditions, then apply one coat of SEAMSIL® Topcoat to a minimum DFT of 100 microns, onto a clean and dry Basecoat, overlapping by approximately ½ inch [13 mm]. The SEAMSIL® products must fully encapsulate the sheet end.

Application Notes

This information should be read in conjunction with the product Safety Data Sheets.

Except for white Topcoat, SEAMSIL® may be thinned by 5% using SEAMSIL® Thinners T514 to ease application. **Do not use white spirit. This will adversely affect adhesion and invalidate the guarantee.**

Do not disturb the uncured lap seal. Excessive overlap gaps created by kinked or misaligned sheets, may be reinstated with a simple pop rivet to facilitate sealant application.

Coverage rates depend on the quantity of material used in the lap. Theoretical coverage rates are for guidance only.

To achieve a good overlap fillet and ease rainwater run off, brush the SEAMSIL® Basecoat upwards towards the ridge.

Remove all swarf arising out of the metal preparation ASAP to avoid contamination of painted areas and existing surface coatings. Failure to remove swarf can result in staining which is technically and aesthetically unacceptable.

Water trapped in the overlap detail must be released before overlap sealing. All surfaces must be clean and dry before applying any of the materials used for this treatment.

Do not clean the surface using a soap detergent solution.

This will leave a residual film and render adhesion impossible. Use Isopropyl alcohol or GE SS4179 primer as necessary.