TECHNOLOGY LTD.

Giromax

PRODUCT DATA & SPECIFICATION SHEET

PROFILED METAL ROOFING

DELCOTE®

ARCHITECTURAL COATING

DELCOTE® Architectural Coating is a single component, silicone coating for the re-painting and weatherproofing of existing PVC, Pvf_2 and similar coated metal roofing & cladding where a standard 200 micron application will provide protection equal or better than the original product.

Used in conjunction with SEAMSIL® edge and overlap treatment the coating system offers a seamless solution to the long-term protection of most existing metal roof types.

Contractor Qualifications

The contractor who installs the DELCOTE® Architectural Coating System must be an approved and Qualified Applicator fully trained in the application of SEAMSIL® and, if spraying, fully trained in the use of airless spray technology.

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 DELCOTE® works to monitor specification compliance and to assist the contractor. Typical inspections include DFT readings, adhesion testing and overall neatness and 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.

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.

Curing System:	Alkoxy	*Colour:*	Grey
Shore A (Approx.):	20	*ISO 9047:*	25
Tensile Strength:	1.6 N/mm²	*Full Cure:*	14 Days
Application Temp:	+3ºc/+60ºc	*Shelf Life:*	12 mths
Volume Solids:	80% (±2%)	*Specific Gravity:*	1.40
Movement Accom.	± 50%	*Break Elongation:*	700%
Temp.Resistance:	-50ºc/+100ºc		

DELCOTE® is an elastomeric, one component, silicone coating in a spirit carrier, supplied for spray, brush or roller in 25 kg drums and available in most cladding colours.

Curing System:	Neutral	*Colour:*	Various
Shore A (Approx.):	32	*Viscosity:*	9000 cps
Tensile Strength:	200 psi	*Tack Free:*	2 Hours
Application Temp:	+3ºc/+60ºc	*Full Cure:*	7/10 Days
Solids by Volume:	65% (±2%)	*Density:*	10.45 lbs/g
Solids by Weight:	80% (±2%)	*Break Elongation:*	400%
Temp.Resistance:	-50ºc/+100ºc	*Shelf Life:*	12 mths

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 3ºC
- Surface to be 2ºC above Dew Point.

For further information including Safety Data Sheets contact:

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Specification: Delcote ® (Metal Roofing)

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

All loose and peeling existing coatings must be removed over entire surface. Power jetting equipment fitted with a rotating spinning head capable of delivering minimum 3000 psi may be considered to remove poorly adherent Plastisol coatings.

Prepare the surface to Swedish Standard ST2. This can be achieved by hand and power tool cleaning, such as scraping, wire brushing, machine brushing or grinding. When viewed without magnification, the surface shall be free from visible oil, grease and dirt, and from poorly adhering mill scale, rust, swarf, coatings and foreign matter. Ensure the surface to be treated is clean, dry and any remaining paint finishes are firmly adhered to the substrate. Ensure no soap solutions are used in the cleaning process.

- *Preparation of Sheet Ends & Lap Joints*

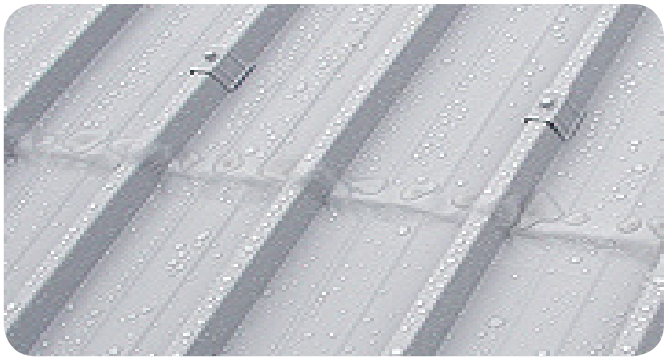
Remove all loose and flaking coatings to a firm feathered edge. Remove rust and white salts by very thorough cleaning (abrading) to Swedish Standard ST 3 Ensure substrate is a keyed surface and not polished. Thoroughly clean and dry the surface. Use Isopropyl Alcohol as necessary. Thoroughly dry the lap using a mechanical driven blower. Ensure all debris non-adherent staining and grinding swarf is removed.

Application of SEAMSIL®

- *Sheet Overlaps / Flashing Joints (as required)*

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). Brushing upward should allow the product 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 perforation or where excessive sheet movement splits the seal before full cure is achieved, a polyester fleece may be installed into the Basecoat.



- *Gutter Overhang / Flashing Edges / Side Laps*

Apply one coat of SEAMSIL® Basecoat to a min DFT of 100 Microns fully encapsulating the edges. Unless peeling, treatment to the sheet side laps is not normally required

- *Fixing Bolts*

Remove cap wherever possible and clean as per standard preparation details. Liberally apply SEAMSIL® Basecoat to encapsulate over and around each fixing point.

Application of DELCOTE®

On completion of all preparation and treatment of laps, edges and fixings apply DELCOTE® to all prepared roof surfaces to a finished dry film thickness of at least 200 microns.

Application Notes

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

SEAMSIL® products can be thinned by 5% using SEAMSIL® Thinners T514 to ease application. ***Do not use white spirit.*** DELCOTE® is supplied ready to use. Additional dilution is neither necessary nor desirable.

DELCOTE® may be sprayed, rolled or brushed to clean, dry, structurally sound surfaces in one or more coats, ideally in a contrasting colour to subsequent applications, depending on individual project requirements based on the prior assessment and approval of Giromax Technology Ltd.

The criss-cross or cross-spray technique should be used without runs. Avoid overspray by masking adjacent surfaces or restricting operations to wind speeds of less than 15 mph. A tack free condition will usually take at least one hour at 21°C. Lower temperatures will require more time between coats and applications risk the possibility of dew or frost and extended drying time. Full curing will usually take 7/10 days and can be verified by the absence of solvent odour.

Remove all swarf arising out of the metal preparation ASAP to avoid contamination of painted areas.

Do not clean the surface using a soap detergent solution. This will leave a residual film and render adhesion impossible.