



GUTTER SYSTEMS

DELCOTE® HPG

GUTTER SUBSTRATE LINING

DELCOTE® HPG is a single component, silicone coating for the refurbishment of galvanised steel, aluminium, concrete and asbestos cement gutters. Used in conjunction with SEAMSIL® 300, (defective joints), the coating system offers a seamless solution to long-term weatherproofing of gutter surfaces.

DELCOTE® HPG is an elastomeric membrane, with vapour breathable properties. Suitable for application as a protective weatherproofing coating, it is designed to completely coat the gutter surface.

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

SEAMSIL®, used for the gutter joints has exceptional adhesion to prepared surfaces. It cures to provide a tough elastic seal.

Contractor Qualifications

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.

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 assessment by Giromax Technology Ltd. Refer to application notes and restrictions overleaf.

Cleaning asbestos cement surfaces must be carried out strictly in accordance with current regulations. All preparation activities shall comply fully with the relevant Health & Safety at Work Act, especially with regard to the removal and disposal of asbestos based waste products.

SEAMSIL® Sealant is a single component Alkoxy curing silicone supplied in 310 ml cartridges, gun applied into the gutter joint to form a completely bridged seal.

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

<i>Curing System:</i>	Alkoxy	<i>Colour:</i>	Grey
<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		

DELCOTE® HPG is an elastomeric, one component, silicone coating in a spirit carrier, supplied for brush or roller in 25 kg drums and available in Albany (mid) and Slate (dark) grey.

<i>Curing System:</i>	Neutral	<i>Colour:</i>	Grey
<i>Shore A (Approx.):</i>	32	<i>Viscosity:</i>	9000 cps
<i>Tensile Strength:</i>	200 psi	<i>Tack Free:</i>	2 Hours
<i>Application Temp:</i>	+3°C/+60°C	<i>Full Cure:</i>	7/10 Days
<i>Solids by Volume:</i>	65% (±2%)	<i>Density:</i>	10.45 lbs/g
<i>Solids by Weight:</i>	80% (±2%)	<i>Break Elongation:</i>	400%
<i>Temp. Resistance:</i>	-50°C/+100°C		
	<i>Shelf Life:</i>	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 3°C
- Surface to be 2°C above Dew Point.

For further information including Safety Data Sheets contact:



Specification: **Delcote® HPG**

Issue	Revision	Date
1	Origination	Apr 1998
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 preparation activities shall comply fully with the relevant Health & Safety at Work Act, especially with regard to the removal and disposal of asbestos based waste products.

Remove all residual coatings including bitumen from the surface to receive treatment. Bitumen residue may be removed using isopropyl alcohol or similar preparation agent.

Remove rust and white salts by very thorough cleaning (abrading) to Swedish Standard ST 3. Ensure substrate is a keyed surface and not polished.

On asbestos cement and concrete, clean and dry the substrate by removing all old treatments, dirt, grease, and surface contaminants.

Thoroughly clean and dry the joint and fixing bolts. Use Isopropyl Alcohol as necessary. All debris must be removed prior to application. If the substrate is perforated, a flexible bandage may be introduced into the repair.

Application of SEAMSIL®300 to Gutter Joint

The application of SEAMSIL® to provide the sealed joint can be achieved by gun applying SEAMSIL® Sealant into the joint to form a complete bridged seal then immediately over coating with SEAMSIL® Basecoat.

Apply one coat of SEAMSIL® Basecoat to prepared surface to at least 25mm either side of gutter joint (including and encapsulating joint bolts) to achieve a minimum DFT of 175 microns. The Basecoat should be applied before the sealant has cured (i.e. wet on wet). The combined effect of the Sealant and Basecoat must form a fillet between the abutting plates.

Where there is perforation of the gutter joint or where excessive sheet movement causes the sealed joint to split before full cure can be achieved, a polyester fleece may be introduced into the SEAMSIL® Basecoat. The fleece should be applied within 30 minutes of applying the Basecoat ensuring the fleece is fully 'wetted' into the Basecoat using a brush or roller.



Application of DELCOTE® HPG

On completion of all preparation and repairs, apply one coat of DELCOTE® HPG to all prepared surfaces, ensuring coverage of all exposed and prepared substrate to achieve a coating thickness equivalent to a coverage rate of 2m² per kilo. The coating may be brush or roller applied according to site conditions.

Apply one further coat of DELCOTE® HPG to all previously treated surfaces, usually in a contrasting colour to a further coverage rate of 2m² per kilo.

Application Restrictions

All moisture must be removed and all surfaces must be clean and dry before applying any of the materials used for this treatment. Water trapped in the joint detail must be released before carrying out any joint sealing.

Residual coatings including existing bitumen retain moisture and must be removed from the surface to receive treatment. Bitumen residue may be removed using isopropyl alcohol or similar preparation agent.

Application Notes

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

Both DELCOTE® HPG and SEAMSIL® Basecoat supplied for gutter joint repair are supplied ready to use and must not be thinned. **Do not use White Spirit as a thinner.** This will adversely affect adhesion and invalidate the material guarantee.

Do not clean the surface using a soap detergent solution. This will leave a residual film and render adhesion impossible. Use only Isopropyl alcohol or GE SS4179.

Products can be applied when metal surface temperatures range between + 3°C to + 60°C. At all times ensure that the surface to be treated is dry, clean and above the Dew Point.

Remove all swarf arising out of the metal preparation. Failure to do so could result in subsequent rust staining which is technically and aesthetically unacceptable.