

TRANSGARD[™] TG159 ALUMINIUM SEALERCOAT

Revised 03/2016 Issue 9

PRODUCT INFORMATION

PRODUCT **D**ESCRIPTION

A two pack epoxy aluminium pigmented sealercoat.

Recommended Use

For use as a sealer for aluminium metal spray.

ENDORSEMENTS

Highways Agency Item No.159.

Recommended Application Methods

Airless Spray (See notes on application overleaf) Conventional Spray (See notes on application overleaf) Brush

Recommended Cleanser Thinner: No. 5

P RODUCT C HARACTERISTICS		
Flash Point:	Base : 37°C	Additive : 38°C
% Solids by Volume:	34 ± 2% (ASTM-D2697-91)	
Pot Life:	12 hours at 15°C 8 hours at 23°C	
Colour Availability:	Aluminium.	

VOC

577 gms/litre determined practically in accordance with UK Regulations PG6/23

577 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive

424 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

Recommended Thickness

Dry film thickness	Wet film thickness	Theoretical coverage
20 microns	59 microns	17.0 m2/ltr*

* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.

PRACTICAL APPLICATION RATES -MICRONS PER COAT

	Airless Spray	Conventional Spray	Brush	
Dry	20	20	15*	
Wet	59	59	45	

* Maximum sag tolerance with overlap typically 75µm wet (25µm dry) by brush.

Average Drying Times

	@ 15°C	@ 23°C	
To touch:	1½ hours	1 hour	
To recoat:	4 hours	3 hours	
To handle:	4 hours	3 hours	
These figures are given as a guide only. Factors such as air movement and humidity must also be considered.			
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Recommended Topcoats

Indefinitely overcoatable with epoxy systems provided the surfaces to be coated have been suitably cleaned. Where a high degree of gloss and colour retention is required, overcoat with Acrolon C137V2 within 7 days at a minimum dft of 50 microns. These overcoating times refer to achievement of optimum adhesion at 23°C and will vary with temperature.

PACKAGE

A two component material supplied in separate containers to be	
mixed prior to use.	

Pack Size:	5 litre units when mixed.
Mixing Ratio:	4 parts base to 1 part additive by volume
Weight:	1.00 kg/litre
Shelf Life:	2 years from date of manufacture or 'Use By' date where specified

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SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination. Coat the aluminium metal spray within 4 hours of spraying the metal coating.

APPLICATION EQUIPMENT

Airless Spray

0.27mm (11 thou) Nozzle Size Fan Angle : 40° Operating Pressure : 140kg/cm² (2000 psi)

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint tem-perature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Sherwin-Williams should be consulted.

Conventional Sprav

Nozzle Size	: 1.27mm (50 thou)
Atomising Pressure	: 3.5kg/cm ² (50 psí)
Fluid Pressure	: 0.7kg/cm ² (10 psi)

The details of atomising pressure, fluid pressure and nozzle size are given as a guide. It may be found that slight variations of pressure will provide optimum atomisation in some circumstances according to the set up in use. Atomising air pressure depends on the air cap in use and the fluid pressure depends on the length of line and direction of feed i.e. horizontal or vertical.

Spray Application

Transgard TG159 may be applied by airless or conventional spray. However, Transgard TG159 is NOT thixotropic and extreme care should be taken (particularly when airless spraying) to avoid runs or sags, particularly where complex geometry steelwork is involved.

Brush

The material is suitable for brush application and must be worked into the aluminium metal sprayed surface.

APPLICATION CONDITIONS AND OVERCOATING

Transgard paints should preferably be applied at temperatures in excess of 10°C. In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3°C above the dew point and always above 0°C.

At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired.

Application at ambient air temperatures below 5°C is not recommended.

In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 10°C during curina.

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Sherwin-Williams.

ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

The curing reaction of epoxies commences immediately the two components are mixed, and since the reaction is dependent on temperature, the curing time and pot life will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.

Epoxy Coatings - Colour Stability: Variable colour stability is a feature of epoxy materials which tend to yellow and darken with age whether used on internal or external areas. Therefore any areas touched-up and repaired with the same colour at a later date may be obvious due to this colour change.

When epoxy materials are exposed to ultra-violet light a surface chalking effect will develop. This phenomenon results in loss of gloss and a fine powder coating at the surface which may give rise to colour variation depending on the aspect of the steelwork. This effect in no way detracts from the performance of the system.

Epoxy Coatings - Tropical Use

Epoxy paints at the time of mixing should not exceed a temperature of 35°C. At this temperature the pot life will be approximately halved. Use of these products outside of the pot life may result in inferior adhesion properties even if the materials appear fit for application. Thinning the mixed product will not alleviate this problem.

The maximum air and substrate temperature for application is 50°C providing conditions allow satisfactory application and film formation. If the air and substrate temperatures exceed 50°C and epoxy coatings are applied under these conditions, paint film defects such as dry spray, bubbling and pinholing etc. can occur within the coating.

Numerical values quoted for physical data may vary slightly from batch to batch.

HEALTH AND SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

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