New Guard Coatings Group

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Protective & Marine Coatings

# ACROLON™ C137V2
## ACRYLIC URETHANE GLOSS FINISH

*FORMERLY KNOWN AS RESISTEX C137V2 / TRANSGARD TG168*

Revised 11/2016 Issue 12

### Product Description

A high performance fast drying acrylic urethane gloss finish for use where long term exterior gloss and colour retention characteristics are required.

### Recommended Use

Material is suitable for use as final coat or coats in conjunction with epoxy or polyurethane based protective systems for new construction or maintenance purposes.

### Endorsements

Highways Agency Item No.168.
Network Rail Item No. 7.3.1.
Certified for decontamination EX07190/06/33/05 in accordance with ISO 8690.

### Recommended Application Methods

Airless Spray
Conventional Spray
Brush
Roller (short pile only)

**Recommended Thinner:**
Cleanser/Thinner: No 15 (for thinning)
Cleanser/Thinner: No 5 (for cleaning)

### Product Characteristics

**Finish**: Gloss

**Flash Point:** Base : 30°C Additive : 58°C

**% Solids by Volume:** 54 ± 3% (ASTM-D2697-91)

**Colour Availability:** Full range

**Pot Life:** 3½hrs @15°C 2½hrs @ 23°C 1hr @ 35°C

**VOC**
412 gms/litre determined practically in accordance with UK Regulations PG6/23
442 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive
317 gms/kilo content by weight from formulation, to satisfy EC SED

### Recommended Thickness

| Dry film thickness | Wet film thickness | Theoretical coverage |
|---|---|---|
| 50 microns | 92 microns | 10.8 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# | Roller# |
|---|---|---|---|---|
| **Dry** | 50* | 50 | 25-50 | 25-50 |
| **Wet** | 92 | **102 | 47-94 | 47-92 |

* Maximum sag tolerance with overlap typically 185µm wet (100µm dry) by airless spray.

**The conventional spray details relate to the paint after 10% thinning with Cleanser/Thinner No.15.

# The actual thickness within the quoted range will depend on many variables including ambient conditions, type of brush or roller used and operator expertise. To ensure full obliteration and maximum opacity, the appropriate undercoat or primer shade should be used.

### Average Drying Times

| | @ 15°C | @ 23°C | @ 35°C |
|---|---|---|---|
| **To touch:** | 1 hour | ¾ hour | ½ hour |
| **To recoat:** | 8 hours | 6 hours | 4 hours |
| **To handle** | 24 hours | 16 hours | 10 hours |

*These figures are given as a guide only. Factors such as air movement and humidity must also be considered.*

### Recommended Primers

Compatible with a wide range of Macropoxy, Dura-plate, Zinc Clad Epoxy Primers and Buildcoats.

### Recommended Topcoats

Not normally required but indefinitely overcoatable with itself and other high performance topcoats.

### Package

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

| | |
|---|---|
| **Pack Size:** | 20 litre and 5 litre units when mixed |
| **Mixing Ratio** | 9 parts base to 1 part additive by volume. |
| **Weight:** | White 1.39 kg/litre (may vary with shade). |
| **Shelf Life:** | 12 months 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.

## Application Equipment

**Airless Spray**

| | | |
|---|---|---|
| Nozzle Size | : | 0.33mm (13 thou) |
| Fan Angle | : | 65° |
| Operating Pressure | : | 210kg/cm² (3000 psi) |

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature 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 Spray**

| | | |
|---|---|---|
| Nozzle Size | : | 1.27mm (50 thou) |
| Atomising Pressure | : | 3.5kg/cm² (50 psi) |
| Fluid Pressure | : | 0.7kg/cm² (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.
For application by conventional spray thin up to 10% with Cleanser/Thinner No.15. Wet film thickness should be adjusted accordingly.

**NB** - Thinning will affect VOC compliance.

**Brush**
The material is suitable for brush application. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

**Roller**
The material is suitable for roller application using a short pile roller. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

## Application Conditions and Overcoating

This material should preferably be applied at temperatures in excess of 10ºC. In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3ºC 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 10ºC during curing.
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 the material 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.

Storage at high temperatures will affect build properties.
Certain shades for example, yellows and reds may require additional coats to achieve full opacity.

The application by brush and roller of the aluminium shade of Acrolon C137V2 may result in an uneven finish and shade variation compared to spray application.

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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