



Protective & Marine Coatings

ACROLON™ 7300 ACRYLIC URETHANE GLOSS FINISH

Revised 07/2016 Issue 4

PRODUCT INFORMATION

PRODUCT DESCRIPTION

A high solids, tin free, polyurethane, with fast drying and high gloss attributes. For use where long term exterior gloss and colour retention characteristics are required.

ENDORSEMENT

Complies with Norsok M501 Rev 6 System 1 as part of a 3 coat system.

PRODUCT CHARACTERISTICS

Finish: Gloss
Flash Point: Base 24°C (75°F) Additive 50°C (122°F)
Colours: Wide range of colours available
Volume solids: 68%±2% (ASTM-D2697-91)
VOC:
 290 g/L (EPA Method 24)
 294 gms/litre

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

AVERAGE DRYING TIMES

Drying Schedule

	-5°C (23°F)	5°C (41°F)	10°C (59°F) 50% RH	25°C (77°F)	35°C (95°F)
To touch:	12hours	5hours	3hours	1 hours	40 mins
To handle:	24hours	12hours	10hours	4 hours	2 hours
Pot Life:	3 hours	2.5 hours	2.5 hours	2 hours	1.5hours

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

RECOMMENDED THICKNESS

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet microns	75 (3.0)	150 (6.0)
Dry microns	50 (2.0)	100 (4.0)
Theoretical Coverage	13.6m ² /L (554 sqft/gal)* @50 microns dft (2 mils)	

NOTE: Brush or roller application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

* 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.

RECOMMENDED USE

Use as a topcoat in industrial environments such as:

- Steel structures finish coating
- Exteriors of containers or tanks
- Bridges or conveyers
- Offshore platforms
- Marine applications
- Acceptable for use in high performance architectural applications

RECOMMENDED APPLICATION METHODS

Airless Spray Brush
 Conventional Spray Roller (short pile only)

Recommended Thinner:
 Cleanser/Thinner: No 15 (for Thinning)
 No 5 (for Cleaning)

RECOMMENDED SYSTEMS

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

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 10 parts Base, 1 part Hardener by volume

Weight: White 1.39 kg/litre (may vary with shade).

Shelf Life: 12 months of manufacture or "use by" date where specified.



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SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt and other foreign material to ensure adequate adhesion.

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 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 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 (16°F) increase in temperature and doubled by a 10°C (16°F) 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 7300 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.