



ACROLON® EG-5 CLEARCOAT

ACRYLIC POLYURETHANE CLEAR COAT

Revised 07/2023 Issue 1

PRODUCT DESCRIPTION

A non-pigmented, transparent 2-pack acrylic polyurethane clear coat.

- UV- and weather resistant, retains high level of gloss
- Tough-elastic and solid but not brittle
- Smooth glossy finish
- Fast curing

RECOMMENDED USE

Can be used as a clear coat for the high-quality, colourless coverage of pigmented polyurethane topcoats e.g. Acrolon® EG-4, Acrolon® EG-5, Acrolon® EG-120.

PRODUCT TECHNICAL DATA

Volume Solids:	48 ± 2% (ISO 3233-3)
Weight Solids:	52 ± 2%
VOC:	480 g/l determined practically in accordance with Protective Coatings Directive of German Paint Industry Association (VdL-RL 04). 481 g/l calculated from formulation to satisfy EC Solvent Emissions Directive. 481 g/kg calculated from formulation to satisfy EC Solvent Emissions Directive (UK).
Colours:	Transparent or clear.
Flash Point:	Base: 23°C, Hardener: 38°C.
Cleaner/Thinner:	Thinner EG (for cleaning). Thinner EG for thinning with max. 5% to adapt the viscosity. Thinning will affect VOC compliance, sag tolerance and dry film thicknesses..
Pack Size:	A two component material supplied in separate containers to be mixed prior to use: 6.25 kg (6.25 litre) unit when mixed. Volume will vary with colours and density.
Mixing Ratio:	84 parts base to 16 parts hardener by weight. 5.8 parts base to 1 part hardener by volume.
Density:	1.0 kg/l (may vary with colours).
Shelf Life:	2 years from date of manufacture, stored in originally sealed containers in a cool and dry environment.

Recommended Application Methods:
Airless Spray, Conventional Spray, Brush and Roller

Typical Thickness:

	Recommended Spreading Rate Per Coat		
	Typical		Maximum Sag
Dry	20 µm	40 µm	60 µm
Wet	42 µm	83 µm	125 µm
Theoretical Consumption*	0.042 kg/m ² 0.042 l/m ²	0.083 kg/m ² 0.083 l/m ²	
Theoretical Coverage*	24.00 m ² /kg 24.00 m ² /l	12.00 m ² /kg 12.00 m ² /l	

* 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.

Pot Life:

+ 10°C	+ 20°C	+ 30°C
6 hours	4 hours	2 hours

Pot life is dependent on temperature and volume.



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AVERAGE DRYING TIMES

Wait 24 h at + 20°C before overcoating the coloured topcoat. Maximum recoat time is unlimited. Prior to further applications all contamination must be removed.

Final cure: 1 week, depending on film thickness and temperature.

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

SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion.

For contaminated and weathered surfaces e.g. coated areas we recommend to clean with Cleaner Wash.

MIXING

Stir component A very thoroughly using a mechanical paint mixer (start slowly, then increase up to approx. 300 rpm). Add component B carefully and mix both components very thoroughly (including sides and bottom of the container). Mix for at least 3 minutes until a homogeneous mixture is achieved. We recommend to fill the mixed material into a clean container and mix again shortly as described above to avoid incorrect mixing. During mixing and handling of the materials always wear protective goggles, suitable gloves and other protective clothings.

APPLICATION CONDITIONS

Substrate temperature shall be above + 5°C and at least 3°C above the dew point.

Material temperature shall be above + 5°C.

Relative air humidity shall be below 85%.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for satisfactory application characteristics. Always purge spray equipment before use with listed cleaner. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Airless Spray

Unit: Efficient airless equipment

Tip Size: 0.28 – 0.43 mm (0.011 – 0.017 inch)

Fan Angle: 40° - 80°

Operating Pressure: min. 180 bar (2600 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 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 consult Sherwin-Williams customer service.

Conventional Spray

Atomising Pressure: 3 - 5 bar (43 - 73 psi)

Tip Size: 1.3 – 2.0 mm (0.05 – 0.08 inch)

Brush and Roller

The coating is suitable for brush and roller application. It can be applied undiluted.



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RECOMMENDED SYSTEMS

1-2 x Acrolon[®] EG-5 Clearcoat

ADDITIONAL NOTES

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

Chemical resistance:

Resistant to weathering, water, seawater, de-icing salts, oil, grease and short-term exposure to mineral oil and diesel.

If in doubt Sherwin-Williams should be consulted.

Temperature resistance:

Dry heat up to + 80°C, short term up to + 120°C.

In case of higher temperatures consult Sherwin-Williams customer service.

An exposure to high temperatures can lead to colour changes.

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

HEALTH & SAFETY

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

WARRANTY

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

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