Protective & Marine Coatings
PRODUCT DATA SHEET

ACROLON® 7700
ACRYLIC URETHANE FINISH

Revised 06/2025 Issue 3

PRODUCT DESCRIPTION

A 2-pack high solids acrylic polyurethane topcoat available in gloss and semi-gloss.

RECOMMENDED USE

For use as a topcoat in industrial environments such as: steel structures, exteriors of containers or tanks, bridges, offshore platforms, marine application, high performance architectural.

Apply in combination with Zinc Clad® or Macropoxy® high performance primers and intermediate coats, where long term exterior gloss / semi-gloss and colour retention characteristics are required.

By adding Acrolon® 7700 PUR Accelerator (see product data sheet for more information) a faster touch and through drying will be achieved to boost productivity.

Approved topcoat for FIRETEX, consult your Sherwin-Williams representative.

PRODUCT TECHNICAL DATA

Volume Solids: 65% ± 3% (ISO 3233-3)

Weight Solids: 77% ± 3%

VOC: 290 g/l EPA Method 24.
284 g/l (203 g/kg) EC Solvent Emissions Directive (Council Directive 1999/13/EC).

Colours: Wide range of colours available

Flash Point: Base: 24°C, Hardener: 50°C

Cleaner/Thinner: Cleanser/Thinner No.5 for cleaning.
Cleanser/Thinner No.15 for thinning with max. 10% by volume (up to 6% by weight) 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:
20 litre (28 kg) and 5 litre (7 kg) units when mixed
Weight will vary with colours and density.

Mixing Ratio: 4 parts base to 1 part hardener by volume.
100 kg parts base to 17 kg parts hardener by weight.

Density: 1.4 kg/l (may vary with colours)

Shelf Life: 1 year from date of manufacture, stored in originally sealed containers in a cool and dry environment between 5°C and 38°C.

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

Typical Thickness:

Recommended Spreading Rate Per Coat

50 – 100 µm	Typical (airless spray)	Maximum Sag (airless spray)
Dry	60 µm**	130 µm
Wet	92 µm**	200 µm
Theoretical Consumption*	0.09 l/m² 0.13 kg/m²	
Theoretical Coverage*	10.8 m²/l 7.74 m²/kg	

* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment.
** Typical for airless and conventional spray.

Film thickness will vary depending on actual use and specification.

Pot Life:

5°C	10°C	23°C	35°C
3 hours	2½ hours	2 hours	1½ hours

Pot life is dependent on temperature and volume.

Using Acrolon® 7700 PUR Accelerator (addition of one bottle [210ml] to a 20 litre pack size):

5°C	10°C	23°C
2½ hours	2 hours	1 hour

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AVERAGE DRYING TIMES

For 60 µm Dry Film Thickness:

	5°C	10°C	23°C	35°C
Dry to handle (Drying Stage 6*)	15 hours	12 hours	7 hours	5 hours
To Recoat	7 hours	5 hours	3 hours	2 hours

Using Acrolon® 7700 PUR Accelerator (addition of one bottle [210ml] to a 20 litre pack size):

	5°C	10°C	23°C
Dry to handle (Drying Stage 6*)	6 hours	5 hours	4 hours
To Recoat	3 hours	2 hours	1 hours

* ISO 9117

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

Maximum recoat time is 6 months. Prior to further applications all contamination must be removed. In the case of extended recoating times, mechanically abrade the surface and remove contamination prior to application of additional coats.

Final cure: 1-2 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.

APPROVALS & ENDORSEMENTS

ISO12944-6:2018 up to C5 as part of a system.

Confirms to SSPC Paint 36 Level 2A

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.

Apply to suitably primed ferrous or non-ferrous substrates.

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 (0°C by adding Acrolon® 7700 Accelerator) and at least +3ºC above the dew point. Material temperature shall be above +10°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: 0.31 mm (0.012 inch)

Fan Angle: 65°

Operating Pressure: min. 193 bar (2800 psi)

The airless spray details given above are intended as a guide only.

Details such as fluid hose length and diameter, paint temperature and substrate 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 consult Sherwin-Williams.

Conventional Spray

Nozzle/Tip Size: 1.27 mm (0.05 inches)

Atomising Pressure: 3.5 bar (50 psi)

Fluid Pressure: 0.7 bar (10 psi)

Brush and Roller

The material is suitable for brush and roller application.

Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

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RECOMMENDED SYSTEMS

Steel:
Compatible with a wide range of Sherwin-Williams Macropoxy®, Dura-Plate®, Acrolon(R) and Zinc Clad® primers and intermediate coats.

For example:
1 x Macropoxy®4600
1 x Acrolon® 7700

Hot-dip galvanized steel:
1 x Macropoxy®4600
1 x Acrolon® 7700

Certain shades for example, yellows and reds may require additional coats to achieve full opacity.

ADDITIONAL NOTES

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

Chemical resistance:
Resistant to weathering, water, seawater, smoke, de-icing salts, acid and alkali vapours, oils, grease and short-term exposure to fuels and solvents.

Temperature resistance:
Dry heat up to +150°C, short term up to +200°C.
Increased humid ambient temperature up to approx. +50°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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