



*Protective & Marine Coatings*  
**ACROLON 7300**  
**PRODUCT TECHNICAL DATA**

Revised 06/2015 Issue 2

**PRODUCT INFORMATION**

| <b>PRODUCT DESCRIPTION</b>   | <b>RECOMMENDED USE</b>  |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
|--|---|----------------|----------------|--------------------|----------------|----------------|--------------------|----------|-----------|-----------------------------|---|--|------------------|---------|--------|--------|---------|---------|-------------------|---------|---------|---------|---------|---------|--|
| <b>ACROLON 7300</b><br><br><b>Material Type:</b><br>A two-component, polyester modified aliphatic acrylic polyurethane coating. Designed for use in industrial environments. Acrolon 7300 has good gloss retention, durability and chemical resistance.<br><br><ul style="list-style-type: none"> <li>• Good gloss and colour retention</li> <li>• Good Application</li> <li>• Fast dry</li> </ul>   | Use over coated metal substrates in industrial environments such as:<br><br><ul style="list-style-type: none"> <li>• Steel structures finish coating</li> <li>• Exteriors of containers or tanks</li> <li>• Bridges or conveyers</li> <li>• Offshore platforms</li> <li>• Marine applications</li> <li>• Acceptable for use in high performance architectural applications</li> </ul> |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>ENDORSEMENT</b>   | <b>RECOMMENDED APPLICATION METHODS</b>  |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| Complies with Norsok M501 Rev 6 System 1 as part of a 3 coat system.   | Airless Spray                      Brush<br>Conventional Spray              Roller (short pile only)  |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>PRODUCT CHARACTERISTICS</b>   | <b>RECOMMENDED UNDERCOATS</b>   |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>Finish:</b> High Gloss<br><br><b>Flash Point:</b> Base 24°C (75°F) Additive 50°C (122°F)<br><br><b>Colours:</b> Wide range of colours available<br><br><b>Volume solids:</b> 68%±2% (ASTM-D2697-91)<br><br><b>VOC:</b> 290 g/L (EPC Method 24)<br><br>294 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive<br>206 gms/kilo content by weight from formulation, to satisfy EC SED   | Dura-plate 301Series<br>Macropoxy 5400<br>Macropoxy 646<br>Epigrip M922<br>Macropoxy C88<br>Epigrip C425V2<br>Epigrip L425<br>Epigrip C400 Series<br>For use with alternative undercoats please contact Sherwin-Williams  |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>AVERAGE DRYING TIMES</b>  | <b>PACKAGE</b>  |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>Drying Schedule</b><br><table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">-5°C<br/>(23°F)</th> <th style="text-align: center;">5°C<br/>(41°F)</th> <th style="text-align: center;">10°C<br/>(59°F)</th> <th style="text-align: center;">25°C<br/>(77°F)</th> <th style="text-align: center;">35°C<br/>(95°F)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;"><b>50% RH</b></td> <td></td> <td></td> </tr> <tr> <td><b>To touch:</b></td> <td>12hours</td> <td>5hours</td> <td>3hours</td> <td>1 hours</td> <td>40 mins</td> </tr> <tr> <td><b>To handle:</b></td> <td>24hours</td> <td>12hours</td> <td>10hours</td> <td>4 hours</td> <td>2 hours</td> </tr> </tbody> </table> |   | -5°C<br>(23°F) | 5°C<br>(41°F)  | 10°C<br>(59°F)     | 25°C<br>(77°F) | 35°C<br>(95°F) |                    |          |           | <b>50% RH</b>               |   |  | <b>To touch:</b> | 12hours | 5hours | 3hours | 1 hours | 40 mins | <b>To handle:</b> | 24hours | 12hours | 10hours | 4 hours | 2 hours | A two component material supplied in separate containers to be mixed prior to use<br><br><b>Pack Size:</b> 20 litre and 5 litre units when mixed<br>Part A: 18.2 litres in 20 litre pail<br>Part B: 1.8 litres in 4 litre pail<br><br><b>Mixing Ratio</b> Part A:Part B = 10:1(by volume)<br><br><b>Weight:</b> White 1.39 kg/litre (may vary with shade).<br><br><b>Shelf Life:</b> Part A: 36 months, unopened,containers at 25°C (77°F).<br>Part B: 12 months unopened, containers at 25°C (77°F) |
|  | -5°C<br>(23°F)  | 5°C<br>(41°F)  | 10°C<br>(59°F) | 25°C<br>(77°F)     | 35°C<br>(95°F) |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
|  |   |                | <b>50% RH</b>  |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>To touch:</b>   | 12hours   | 5hours         | 3hours         | 1 hours            | 40 mins        |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>To handle:</b>  | 24hours   | 12hours        | 10hours        | 4 hours            | 2 hours        |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>TYPICAL THICKNESS</b>   |   |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>Recommended Spreading Rate per coat:</b><br><table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Minimum</th> <th style="text-align: center;">Maximum</th> </tr> </thead> <tbody> <tr> <td><b>Wet microns</b></td> <td style="text-align: center;">75 (3.0)</td> <td style="text-align: center;">150 (6.0)</td> </tr> <tr> <td><b>Dry microns</b></td> <td style="text-align: center;">50 (2.0)</td> <td style="text-align: center;">100 (4.0)</td> </tr> <tr> <td><b>Theoretical Coverage</b></td> <td colspan="2" style="text-align: center;">13.6m<sup>2</sup>/L (554 sqft/gal)*<br/>@50 microns dft (2 mils)</td> </tr> </tbody> </table>   |   | Minimum        | Maximum        | <b>Wet microns</b> | 75 (3.0)       | 150 (6.0)      | <b>Dry microns</b> | 50 (2.0) | 100 (4.0) | <b>Theoretical Coverage</b> | 13.6m <sup>2</sup> /L (554 sqft/gal)*<br>@50 microns dft (2 mils) |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
|  | Minimum   | Maximum        |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>Wet microns</b>   | 75 (3.0)  | 150 (6.0)      |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>Dry microns</b>   | 50 (2.0)  | 100 (4.0)      |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <b>Theoretical Coverage</b>  | 13.6m <sup>2</sup> /L (554 sqft/gal)*<br>@50 microns dft (2 mils)   |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |
| <p><i>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</i></p> <p>* 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.</p>   |   |                |                |                    |                |                |                    |          |           |                             |   |  |                  |         |        |        |         |         |                   |         |         |         |         |         |  |



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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**

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

##### **Thinner/Clean Up:**

Thinner ..... No 15  
For more options of thinners, please contact Sherwin-Williams local representative for details.

##### **Airless Spray**

Pump ..... 45:1 minimum  
Pressure ..... 15 Mpa minimum  
Hose ..... 9.5mm ID  
Tip ..... 0.013" - 0.017"(0.33-0.43mm)  
Filter ..... none  
Thinning ..... as needed up to 10% by volume

##### **Conventional Spray**

Gun ..... Binks 95  
Fluid Nozzle ..... 66  
Air Nozzle ..... 68 PB  
Atomization Pressure .... 0.5 Mpa  
Fluid Pressure ..... 0.2 Mpa  
Reduction ..... as needed up to 10% by volume

Keep pressure pot at level of applicator to avoid blocking of fluid line due to weight of material. Blow back coating in fluid line at intermittent shutdowns, but continue agitation at pressure pot.

##### **Brush**

Brush ..... Nylon/Polyester Natural Bristle  
Thinning ..... as needed up to 10% by volume

##### **Roller**

Brush ..... 3/8"-1/2" woven with phenolic core  
Thinning ..... as needed up to 10% by volume

#### **APPLICATION CONDITIONS AND OVERCOATING**

If specific application equipment is not listed above, equivalent equipment may be substituted.

This material should preferably be applied at temperatures in excess of -5°C (23°F). In conditions of high relative humidity, ie, 80-85% good ventilation conditions are essential. Substrate temperature should be at least 3°C (5°F) above the dew point.

At application temperatures below 10°C (50°F), drying and curing times will be significantly extended, and spraying characteristics may be impaired.

Application at ambient air temperatures below -5°C (23°F) is not recommended.

In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 10°C (50°F) during curing.

Do not apply when the air, paint or substrate temperature is above 43°C (109°F).

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, lead free yellows and reds may require additional coats to achieve full opacity.

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.