



DURA-PLATE® 301W

SURFACE & HUMIDITY TOLERANT EPOXY

Revised 01/2014 Issue 2

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Dura-plate 301W is the low temperature curing version of the Dura-plate 301 series of amine cured, surface and humidity tolerant anti-corrosive coatings for longer service life steel protection. It can be used for both immersion (crude and water) and atmospheric service in off-shore, marine, industrial and construction applications. Delivers high adhesion and performance over abrasive, wet abrasive and UHP water jetted surfaces. It is compatible with mechanically treated surfaces, low profile roughness, flash rust and damp carbon steel substrates.

RECOMMENDED APPLICATION METHODS

Airless Spray
Brush & Roller (for small areas, stripe coat and touch up only)

Recommended Cleanser: TH03 (DO NOT THIN)

PRODUCT CHARACTERISTICS

Flash Point: Base: 102°C (212°F) Curing Agent: 104°C (220°F)

% Solids by Volume: 97% (±3%) at time of mixing (theoretical).

Pot Life: 90 mins @ 0°C, 50 mins @ 10°C, 30 mins @ 20°C

Colour Availability: Off White, Grey, Redox, Black

VOC (EPA method 24) : <150g/l : 1.25lb/gal

TYPICAL THICKNESS (AIRLESS SPRAY)

	Min	Max
Wet microns (mils)	103 (4.1)	309 (12.3)
Dry microns (mils)	100 (4)	300 (12)
Theoretical coverage m ² /ltr	9.7	3.3

This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment

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

AVERAGE DRYING TIMES @ 100 MICRONS WET

	@ 0°C	@ 10°C	@ 20°C
To touch:	21 hours	15 hours	4½ hours
To recoat:	48 hours	24 hours	8 hours
To handle:	48 hours	24 hours	20 hours

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

APPLICATION CONDITIONS AND OVERCOATING

Can be overcoated with Dura-plate 301 Range for up to 6 months provided the surfaces to be coated have been suitably cleaned.

For overcoating with polyurethane and epoxy topcoats, maximum recommended interval without abrasion is 28 days.

For overcoating with other products and/or outside of this window please contact Sherwin-Williams

HEALTH AND SAFETY

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

PACKAGE

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

Pack Size: 16ltr (20.8kg), 4ltr (5.2kg) (When mixed)

Mixing Ratio: 7:3 by Volume

Weight: 1.3 kg/litre (may vary with shade).

Shelf Life: 12 months from date of manufacture or 'Use By' date where specified. Storage must be at temperatures between 10°C – 35°C.

SURFACE PREPARATION

Blast clean to Sa2 BS EN ISO 8501-1:2007 (SSPC-SP6/NACE 3) Surface profile in the range 50-75 microns.
Mechanically treat to St3 ISO 8501-2007 (SSPC-SP3)
Hydroblasting to WJ-2M (SSPC SP12-VIS4(I) /NACE N°5-N°7)
Ensure surfaces to be coated are clean, dry and free from all surface contamination.

APPLICATION EQUIPMENT

Airless Spray - GRACO KING 56:1 OR SIMILAR - ALL FILTERS

REMOVED - MIN 3/8" HOSE DIAMETER

Nozzle Size: 17-21 thou (0.43 – 0.54mm)

Fan Angle: 60° - 80°

Operating Pressure: 3500-3900 psi (246-274kg/cm²)

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.

Brush/Roller

The material is suitable for brush/roller application, as a stripe coat or for touch up of small areas. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

ADDITIONAL NOTES

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

For optimum immersion service normal full cure must be achieved, ie 7 days at 0°C

Flushing of spray equipment is essential before any break in work, and is recommended at regular intervals throughout the application procedure. Only mix units of Dura-plate 301W as they are required for immediate use.

Do not cross mix older and newer units of already mixed material.

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

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.