



RESISTEX M535

PRODUCT TECHNICAL DATA

Revised 05/2013 Issue 9

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESISTEX M535 PITCH FREE UNDERWATER COATING

Material Type:

Single pack, pitch free, vinyl copolymer resin based underwater coating

RECOMMENDED USE

Provides anticorrosive protection when applied onto blast cleaned steel.

To be used in situations where coal tar pitch products are excluded on health and safety grounds, or where bleed through of pitch into topcoats is not acceptable.

RECOMMENDED APPLICATION METHODS

Airless Spray
Brush (for small areas and touch up only)
Roller

Recommended Thinner: Cleanser/Thinner: No 9

PRODUCT CHARACTERISTICS

Flash Point: 8°C

% Solids by Volume: 35 ± 3% (ASTM-D2697-91)

Colour Availability: Metallic Silver, Metallic Pink, Black

VOC

502 gms/litre determined practically in accordance with UK Regulations PG6/23
572 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive
493 gms/kilo content by weight from formulation, to satisfy EC SED

TYPICAL THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
75 microns	214 microns	4.7 m ² /ltr*

* 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.

PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Airless Spray	Brush	Roller
Dry	75*	40	40
Wet	214	114	114

* Maximum sag tolerance typically 125µm dry by airless spray.

AVERAGE DRYING TIMES

	@ 15°C	@ 23°C	@ 35°C
To touch:	1 hour	30 minutes	20 minutes
To recoat:	3 hours	2 hours	1½ hours
To handle	8 hours	6 hours	4 hours

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

RECOMMENDED PRIMERS

Metagard L574 Blast Primer, Epigrip L425, Epigrip C425V2

RECOMMENDED TOPCOATS

Indefinitely overcoatable by itself or by a wide range of antifouling compositions.

Consult Sherwin-Williams for details of specifications

PACKAGE

Single component material

Pack Size: 20 litre and 5 litre units

Weight: 1.21 kg/litre (may vary with shade).

Shelf Life: 2 years from date of manufacture or 'Use By' date where specified



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SURFACE PREPARATION

Blast clean to Sa2½ BS EN ISO 8501-1:2007. Average surface profile in the range 50-75 microns.

Manually prepared surfaces should be prepared to a minimum standard of St3 BS EN ISO 8501-1:2007 at the time of coating. Ensure surfaces to be coated are clean, dry and free from all surface contamination.

May also be applied over a wide range of pre-fabrication primers, including inorganic zinc silicate and epoxy types.

APPLICATION EQUIPMENT

Airless Spray

Nozzle Size : 0.46-0.53mm (18-21 thou)
Fan Angle : 65°
Operating Pressure : 140-210kg/cm² (2000-3000 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.

Brush

The material is suitable for brush application to small areas and for touch up purposes. To achieve normal dry film thicknesses by brush, more than one coat will be necessary.

Roller

The material is suitable for roller application. 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

In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature should 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.

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.

Where this material is used as a touch-up primer on ships bottom systems, care must be exercised to keep overlap of the primer onto existing coatings to a minimum.

The nature of solvents in this material may cause some shrinking and crazing of certain antifouling coatings if excessive overlap occurs. This effect is purely cosmetic and will not affect the corrosion resistance of the overall system, however careful supervision and application will reduce the effect to a minimum.

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.