



Protective & Marine Coatings

MACROPOXY™ P300 EPOXY POTABLE WATER COATINGS

FORMERLY KNOWN AS WATERLINE P300

Revised 07/2017 Issue 9

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Solvent free 2-pack epoxy.

RECOMMENDED USE

As a high build water resistant finish for use on the internal surfaces of potable water pipes and tanks.

ENDORSEMENTS

DWI approved as a site and factory applied coating for potable water retaining structures ref DWI 56.4.253
Water Industry Act 1991 : Section 69
Water Supply (Water Quality) Regulations : 1989
Water Supply (Water Quality) Regulations (Amendment) 1991 - Regulation 25(1)
Water Regulations Advisory Scheme Directory Reference 0512526

RECOMMENDED APPLICATION METHODS

Twin component spray
Brush (for small areas and touch up only)

Recommended Cleanser Thinner: Do NOT thin.
Cleanser/Thinner No. 5 may be used for cleaning equipment.

PRODUCT CHARACTERISTICS

Flash Point: Base : Above 55°C Additive : Above 55°

% Solids by Volume: 100%

Pot Life: 15 minutes at 20°C (brush application)
5 minutes at 40°C

Colour Availability: Grey (Black Base, White Additive)

VOC: None

RECOMMENDED THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
500 microns	500 microns	2.00 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
Dry	500*	500
Wet	500	500

* Maximum sag tolerance typically 1000 microns.

AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	3 hours	1½ hour
To recoat:	6 hours	3 hours
To handle:	16 hours	8 hours

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

RECOMMENDED TOPCOATS

Macropoxy P300 is only recommended to be overcoated for touch up purposes.
Prior to overcoating, these areas must be thoroughly abraded, then solvent washed using Cleanser Thinners No. 13. Allow all solvent washings to dry, and thoroughly ventilate the area before applying touch up coat.

PACKAGE

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

Pack Size: 30 litre units when mixed.

Mixing Ratio: 2 parts base to 1 part additive by volume.

Weight: 1.18 kg/litre.

Shelf Life: 12 months from date of manufacture or 'Use By' date where specified.



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SURFACE PREPARATION

For tank internals and for maintenance of existing tanks, blast clean to Sa2½ BS EN ISO 8501-1:2007 using angular grit. Minimum surface profile 75 microns. Ensure surfaces to be coated are clean, dry and free from all surface contamination.

For application on concrete substrates, refer to P300 Instructions for Use document.

APPLICATION EQUIPMENT

Twin component Spray

Macropoxy P300 is applied using dual component hot airless spray equipment - consult Sherwin-Williams for further information.

Operating temperature : 35-45°C
Operating Pressure : Minimum 2200psi at the tip
Nozzle size : 0.48-0.53mm (19-21 thou)
Fan angle: 60°

Brush

The material is suitable for brush application to small areas and for touch up purposes. 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

Macropoxy P300 should preferably be applied at temperatures in excess of 10°C. Relative humidity should not exceed 85% and in these conditions good ventilation is essential. The use of dehumidifiers to maintain stable environmental condition is recommended during application and curing of the coating. Substrate temperature shall 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.

Return to Service : Applied coating must be allowed to cure for 16 hours at 3°C or above before returning to service. Should ambient temperature fall below 3°C in this 16 hour period, a further 16 hours should be allowed, once the ambient temperature rises above 3°C.

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 epoxies 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 increase in temperature and doubled by a 10°C decrease in temperature.

Due to the nature of the resin system in Macropoxy P300, some discolouration will occur on exposure to UV radiation. This effect is purely cosmetic and will not detract from the performance of the material in any way.

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.