

Protective Marine **Coatings**

MACROPOXY™ 267 **EPOXY INTERMEDIATE MIO**

FORMERLY KNOWN AS MACROPOXY C267V3

Revised 04/2019 Issue 1

PRODUCT INFORMATION

To touch:

PRODUCT DESCRIPTION

A high solids 2-pack epoxy, pigmented with micaceous iron oxide.

RECOMMENDED USE

As an intermediate in conjunction with high performance primers

ENDORSEMENTS

HA Item No 112

RECOMMENDED APPLICATION METHODS

Airless Spray, Conventional Spray, Brush, Roller

Recommended Thinner:

Cleanser/Thinner No 5 (for thinning)

Cleanser/Thinner No 9 or No13 (for cleaning)

Thinning up to a maximum of 5% is allowed to depending on required thickness and application conditions. Do not thin more than allowed by local environmental legislation'

PRODUCT CHARACTERISTICS

Flash Point: Base: 38°C Additive: 38°C **% Solids by Volume:** 78 ± 3% ASTM-D2697-03(2014) Pot Life: 2hrs @ 15°C, 11/2 hrs @ 23°C, 1 hr @ 35°C

Colour Availability: Grey MIO, Dark Grey MIO, Light Grey MIO VOC

203 gms/litre determined practically in accordance with UK Regulations PG6/23

250 gms/litre calculated from formulation to satisfy EC Solvent

Emissions Directive 120 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

Theoretical Spreading Rate per coat: **Minimum** Maximum

Wet microns	128	448
Dry microns	100	350
~Coverage m²/L (sq ft/gal)	7.8 (318)	2.2 (90)

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

Brush application may require mulitple coats to achieve maximum film thickness and uniformity of appearance.

RECOMMENDED THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage	
125 microns	160 microns	6.24m ² /ltr* (254 sq ft/gal)	

*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	Conventional Spray	Brush	Roller
Dry	125*	125	**98	59
Wet	160	160	125	75

Maximum sag tolerance with overlap typically 512μm wet (400μm dry) by airless spray

Maximum sag tolerance with overlap typically 179μm wet (140μm dry) by brush.

AVERAGE DRYING TIMES

@ 15°C @ 23°C @ 35°C 11/4 hours 45 minutes 30 minutes 6 hours 4 hours 2 hours

To recoat: To handle 10 hours 6 hours 3 hours

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

RECOMMENDED PRIMERS

Compatable with a wide range of Macropoxy, Zinc Clad Epoxy primers and buildcoats.

RECOMMENDED TOPCOATS

Indefinitely overcoatable with epoxy systems provided the surfaces to be coated have been suitably cleaned.

Where a high degree of gloss and colour retention is required overcoat with Acrolon C137V2, Acrolon C237, Acrolon 1850 or Acrolon 7300 finishes. In order for the dry film of Macropoxy 267 to be recoated with Acrolon C137V2, Acrolon 7300, Acrolon C237 or Acrolon 4050 of the substantial dry in the color of the substantial dry in the color of the substantial dry in th C237 or Acrolon 1850 after extended periods (without maximum stated limits) the following conditions shall be matched in the moment of the finish application:

- 1. The previous coating has been applied at the recommended dry film thickness and in accordance with good painting practices. Is free from any application defects and the dry film is tightly adherent.
- 2. The surface is free from all type of contaminants such as soluble salts, oily and greasy materials and any other visible contamination that can affect intercoat adhesion. Any detected contamination shall be cleaned by adequate methods prior to the finish application.
- 3. Surface does not present burn marks or any type of defect caused by mechanical, chemical or other type of damage. All such damaged areas areas shall be repaired with the original coating system before applying the finish coat.
- 4. If under direct sunlight exposure for long periods the surface shall be checked for degraded superficial layer that can affect intercoat adhesion. If such layer is observed it should be removed by means of water jetting, abrading, solvent cleaning or other method considered to be suitable.

If applying Acrolon C750V2 overcoat within 4 days.

These overcoating times refer to achievement of optimum adhesion at 23°C and will vary with temperature.

PACKAGE

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

Pack Size: 18 litre and 5 litre units when mixed.

Mixing Ratio 4 parts base to 1 part additive by volume

Weight: 2.08kg/litre (may vary with shade)

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



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SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

APPLICATION EQUIPMENT

Airless Spray

Nozzle Size : 0.46mm (15-19 thou)

Fan Angle : 40°

Operating Pressure : 155kg/cm² (2200 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.

Conventional Spray

 Nozzle Size
 :
 1.27mm (50 thou)

 Atomising Pressure
 :
 3.5kg/cm² (50 psi)

 Fluid Pressure
 :
 0.7kg/cm² (10 psi)

The details of atomising pressure, fluid pressure and nozzle size are given as a guide. It may be found that slight variations of pressure will provide optimum atomisation in some circumstances according to the set up in use. Atomising air pressure depends on the air cap in use and the fluid pressure depends on the length of line and direction of feed i.e. horizontal or vertical.

For application by conventional spray, it may be necessary to thin the paint by the addition of up to 10% Cleanser Thinner No. 5. Where thinning has been carried out the wet film thickness must be adjusted accordingly.

N.B. Thinning will affect VOC compliance.

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.

APPLICATION CONDITIONS AND OVERCOATING

Epoxy paints should preferably be applied at temperatures in excess of 10°C. In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. 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, and spraying characteristics may be impaired.

Application at ambient air temperatures below 5°C is not recommended.

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

Epoxy Coatings - Tropical Use

Epoxy paints at the time of mixing should not exceed a temperature of 35°C. At this temperature the pot life will be approximately halved. Use of these products outside of the pot life may result in inferior adhesion properties even if the materials appear fit for application. Thinning the mixed product will not alleviate this problem.

The maximum air and substrate temperature for application is 50°C providing conditions allow satisfactory application and film formation. If the air and substrate temperatures exceed 50°C and epoxy coatings are applied under these conditions, paint film defects such as dry spray, bubbling and pinholing etc. can occur within the coating.

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

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.