



# Protective & Marine Coatings

# MACROPOXY™ M262 EPOXY FINISH

FORMERLY KNOWN AS EPIGRIP M262

Revised 11/2017 Issue 20

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

A 2-pack epoxy high build finish

### RECOMMENDED USE

As a durable high build gloss finish for interior or exterior use in conjunction with appropriate primers and undercoats. Suitable for application on concrete floors - see note overleaf.

### ENDORSEMENTS

Certified for decontamination EX07190/06/33/01 in accordance with ISO 8690.

### RECOMMENDED APPLICATION METHODS

Airless Spray                      Brush  
Conventional Spray              Roller

Recommended Cleanser/Thinner: No 5

### PRODUCT CHARACTERISTICS

**Flash Point:** Base : 29°C    Additive : 35°C

**% Solids by Volume:** 60 ± 3% (ASTM-D2697-91)

**Pot Life:** 6 hrs @ 15°C, 4 hrs @ 23°C, 2 hrs @ 35°C

**Colour Availability:** Full range

#### VOC

354 gms/litre determined practically in accordance with UK Regulations PG6/23  
386 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive  
278 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

### RECOMMENDED THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
75 microns	125 microns	8.0 m <sup>2</sup> /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	Conventional Spray	Brush#	Roller#
Dry	75*	75	30-55	25-40
Wet	125	125	50-92	42-83

\* Maximum sag tolerance typically 208µm wet (125µm dry) by airless spray

# The actual thickness within the quoted range will depend on many variables including ambient conditions, type of brush or roller used and operator expertise. To ensure full obliteration and maximum opacity, the appropriate undercoat or primer shade should be used.

### AVERAGE DRYING TIMES

	@ 15°C	@ 23°C	@ 35°C
<b>To touch:</b>	2 hours	1½ hours	1 hour
<b>To recoat:</b>	6 hours	4 hours	3 hours
<b>To handle:</b>	24 hours	16 hours	12 hours

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

### RECOMMENDED SYSTEMS

Compatible with a wide range of Macropoxy, Dura-plate, Zinc Clad Epoxy Primers and Buildcoats.

### PACKAGE

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

**Pack Size:** 20 litre and 5 litre units when mixed.

**Mixing Ratio:** 4 parts base to 1 part additive by volume.

**Weight:** 1.41 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

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

### APPLICATION EQUIPMENT

#### Airless Spray

Nozzle Size:	0.38mm (15 thou)
Fan Angle:	60°
Operating Pressure:	190kg/cm <sup>2</sup> (2700 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 :	1.28mm (50 thou)
Atomising Pressure:	3.5kg/cm <sup>2</sup> (50 psi)
Fluid Pressure :	1.1kg/cm <sup>2</sup> (15 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.

#### Brush

The material is suitable for brush application. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

#### 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

Epoxy paints should preferably be applied at temperatures in excess of 10°C. In conditions of high relative humidity, i.e. 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.

Suitable for application on concrete floors. Ensure that substrate is sound, clean and free from surface contaminants. Moisture content must be less than 7%. The first coat of Macropoxy M262 should be thinned up to 15% with cleanser thinner 5 to assist in sealing the substrate porosity.

Where a non-skid profile is required P515 aggregate should be stirred into the Macropoxy M262 mixed paint, immediately prior to application, at a rate of 1.0kg per 5 ltr unit. Application will then only be possible by brush or roller.

Certain shades for example, yellows, oranges and reds may require additional coats to achieve full opacity.

#### Epoxy Coatings:

**Colour Stability:** Variable colour stability is a feature of epoxy materials which tend to yellow and darken with age.

Therefore any areas touched-up and repaired with the same colour at a later date may be obvious due to this colour change.

When epoxy materials are exposed to ultra-violet light a surface chalking effect will develop. This phenomenon results in loss of gloss and a fine powder coating at the surface which may give rise to colour variation depending on the aspect of the steelwork. This effect in no way detracts from the performance of the system.

#### 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 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.