



# Protective & Marine Coatings

# MACROPOXY™ H766 EPOXY FINISH

FORMERLY KNOWN AS EPIGRIP H766

Revised 02/2016 Issue 14

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

A 2-pack epoxy gloss finish.

### RECOMMENDED USE

As a durable gloss finish for brush or roller application for interior or exterior use, in conjunction with appropriate primers and undercoats.

### ENDORSEMENTS

Tested and approved by MoD for ease of decontamination in cleansing stations on Royal Navy Vessels.

### RECOMMENDED APPLICATION METHODS

Brush  
Roller

Recommended Cleanser/Thinner: No 5

### PRODUCT CHARACTERISTICS

**Flash Point:** Base : Base : 37°C Additive : 29°C

**% Solids by Volume:** 56 ± 3% (ASTM-D2697-91)

**Pot Life:** 10 hours at 15°C 8 hours at 23°C

**Colour Availability:** Limited range

### VOC

395 gms/litre determined practically in accordance with UK regulations PG6/23  
393 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive  
298 gms/kilo content by weight from formulation to satisfy EC Solvent Emissions Directive

### TYPICAL THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
40 microns	71 microns	14.0 m <sup>2</sup> /ltr*

\* This figure makes no allowance for surface profile, uneven application or losses in containers and equipment. Film thickness will vary depending on actual use and specification.

### PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Brush	Roller
Dry	40	40
Wet	71	71

### AVERAGE DRYING TIMES

At 15°C At 23°C

**To touch:** 4 hour 2½ hours

**To handle:** 8 hours 5 hours

**To recoat:** 24 hours 16 hours

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

### RECOMMENDED PRIMERS

Macropoxy L425 Zinc Phosphate Primer  
Zinc Clad M501 Epoxy Zinc Rich Primer

### RECOMMENDED UNDERCOATS

Macropoxy C88 Epoxy Primer Finish

### RECOMMENDED TOPCOATS

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

### PACKAGE

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

**Pack Size:** 4 litre units when mixed.

**Mixing Ratio:** 3 parts base to 1 part additive by volume.

**Weight:** 1.32 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 dry and free from all visible traces of surface contaminants.

### **APPLICATION EQUIPMENT**

#### **Brush**

The material is suitable for brush application.

#### **Roller**

The material is suitable for roller application.

### **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.

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 - Colour Stability:**

Variable colour stability is a feature of epoxy materials which tend to yellow and darken with age whether used on internal or external areas. 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.

The material is suitable for brush and roller application only. It is not suitable for spray application. Macropoxy M262 should be used if spray application is required.

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.