



# Protective & Marine Coatings

# EPIDEK™ M153 EPOXY DECK COATING

Revised 06/2019 Issue 21

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

Aggregate dressed, ultra heavy duty, hard wearing, coal tar free, solvent-less epoxy anti-slip deck coating.

### RECOMMENDED USE

For the treatment of deck surfaces subject to the most extreme of operational conditions requiring a high degree of impact and abrasion resistance; where a high level of anti-slip properties need to be retained under conditions of severe crude oil and hydrocarbon contamination.

### ENDORSEMENTS

Complies with NORSOK M501 (Rev.5) System 4

### RECOMMENDED APPLICATION METHODS

Trowel ( see overleaf )

Recommended Cleanser/Thinner: No 5

### PRODUCT CHARACTERISTICS

**Flash Point:** Base : 14°C Additive : 14°C

**% Solids by Volume:** 95 ± 2% (ASTM-D2697-03(2014))

**Colour Availability:** Dark Grey and Green

Dressing aggregate available as standard grey or photo-luminescent green.

#### VOC

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

42 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive

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

### RECOMMENDED THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
3000 microns	3158 microns	0.32 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

	Trowel
Dry	3000
Wet	3158

### AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	6 hours	5 hours
To recoat:	6 hours	5 hour
To handle:	20 hours	14 hours
Pot Life:	1½ hours	1 hour

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

### RECOMMENDED PRIMERS / TOPCOATS

Macropoxy C425V2 Zinc Phosphate Primer/Buildcoat  
Macropoxy L425 Zinc Phosphate Primer  
Macropoxy M262 Hi-Build Finish  
Acrolon C137V2  
Acrolon C237  
Acrolon 7300  
Macropoxy 646

### PACKAGE

A two component package comprising Component 'A' and 'B'

Component A (20 litre pail); Containing 12.6 litres base screed unit comprising epoxy resin base, curing agent and fine silica grit.

Component B (nylon sack); Containing 25kg calcined bauxite aggregate (see over).

**Pack Size:** 12.6 litre unit when mixed

**Mixing Ratio** 1.54 parts base to 1 part additive by volume plus silica grit

**Weight:** 1.84 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**

Material should be applied direct to blast cleaned steel prepared to a minimum standard of Sa2½ BS EN ISO 8501-1:2007. Average surface profile in the range 50-100 microns.

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

For application on other surfaces such as concrete, please consult Sherwin-Williams.

### **APPLICATION EQUIPMENT**

#### **Trowel**

Thoroughly mix contents of epoxy resin and curing agent containers of Component 'A' to a homogeneous consistency. The fine silica grit of Component 'A' must then be added and mixed using a suitable power stirrer until homogeneous. The mixed screed is applied and spread, using a trowel or float, after pouring onto the substrate, to an even wet film thickness of 3mm, using a wet film gauge to monitor the application. The screed must be applied in one application.

Within 10-20 minutes (depending on temperature) of applying the base screed Component 'A' it must be dressed using the contents of Component 'B'. The method is to scatter the dressing aggregate onto the screed until it is fully saturated to excess and no screed appears visible.

After 24 hours curing at a minimum temperature of 10°C, excess dressing aggregate is removed normally by sweeping using a stiff bristled yard brush. Provided it is dry and free from other contamination excess aggregate may be re-used.

### **APPLICATION CONDITIONS AND OVERCOATING**

It is preferred that whenever practical Epidek M153 should be applied directly on to blast cleaned steel to Sa2½. M153 may be applied over an approved high build epoxy primer.

If applied over Macropoxy Blast Primer the primer thickness must be carefully controlled. The target DFT is 25µm but the maximum DFT applied must not exceed 40µm. If a high build primer is required please use one of those recommended on the front of this data sheet.

This material 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.

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.

#### **Calcined Bauxite Aggregate**

Four sizes of aggregate are available depending on degree of anti-slip properties required and end use:-

1. Light Aggregate (0.85 - 1.70mm )
2. Medium Aggregate (1.40 - 2.00mm )
3. Heavy Aggregate (1.40 - 2.80mm)
4. Road Aggregate (3.00 - 5.00mm)

**N.B.** Consumption of aggregate will depend upon screed thickness, efficiency of excess aggregate recovery and recycling. For guidance on quantities of aggregate consult sheet entitled Epigrip M153 Supplementary Information.

#### **Overcoating**

If it is felt desirable to overcoat the surface of Epidek M153 Heavy Duty Deck Coating or to mark surfaces with a different colour this may be achieved by the application of a coat of Macropoxy M262 Hi-Build Finish. 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.