



# EPIDEK™ M153

## EPOXY DECK COATING

Revised 10/2024 Issue 23

### PRODUCT DESCRIPTION

An aggregate dressed 2-pack epoxy anti-slip deck coating.

- Ultra heavy duty coating
- Hard wearing
- Coal tar free

### 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.

### PRODUCT TECHNICAL DATA

<b>Volume Solids:</b>	95 ± 2 % (ASTM-D2697-03)
<b>VOC:</b>	42 g/l determined practically in accordance with UK Regulations PG6/23. 42 g/l calculated from formulation to satisfy EC Solvent Emissions Directive. 22 g/kg calculated from formulation to satisfy EC Solvent Emissions Directive (UK).
<b>Colours:</b>	Dark Grey and Green.
<b>Flash Point:</b>	Base: 14°C, Hardener: 14°C
<b>Cleaner/Thinner:</b>	Cleanser/Thinner No.5 for cleaning. Thinning is not recommended.
<b>Pack Size:</b>	A two component package comprising Component A and Component B: <b>Component A</b> (20 litre pail), containing 3.7 litres epoxy resin base, 2.4 litres hardener and 16.25 kg fine silica grit. Mixed this results in 12.6 litres base screed. <b>Component B</b> (nylon sack), containing 25 kg calcined bauxite aggregate.
<b>Mixing Ratio:</b>	1.54 parts base to 1 part hardener by volume plus silica grit.
<b>Density:</b>	1.84 kg/l (may vary with colours).
<b>Shelf Life:</b>	2 years from date of manufacture, stored in originally sealed containers in a cool and dry environment.

#### Recommended Application Methods:

Trowel.

#### Typical Thickness:

Recommended Spreading Rate Per Coat		
	Typical	Maximum Sag
Dry	3000 µm	5000 µm
Wet	3200 µm	5300 µm
Theoretical Consumption*	5.811 kg/m <sup>2</sup> 3.158 l/m <sup>2</sup>	
Theoretical Coverage*	0.17 m <sup>2</sup> /kg 0.32 m <sup>2</sup> /l	

\* 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.

#### Pot Life:

+ 15°C	+ 23°C
1½ hours	1 hour

Pot life is dependent on temperature and volume.



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### AVERAGE DRYING TIMES

#### For 3000 µm Dry Film Thickness:

	+ 15°C	+ 23°C
To touch	6 hours	5 hours
To recoat	6 hours	5 hours
To handle	20 hours	14 hours

Maximum recoat time for marking is 3 months. Prior to further applications all contamination must be removed. In the case of extended recoating times consult Sherwin Williams customer service.

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

### APPROVALS & ENDORSEMENTS

Complies with NORSOK M501 (Rev.5) System 4.

### SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion.

**Steel surfaces** shall be blast-cleaned to Sa 2½ according to ISO 8501-1 (ISO 12944-4), using angular grit. Average surface profile Rz ≥ 50 µm.

### MIXING

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 mechanical paint mixer (start slowly, then increase up to approx. 300 rpm) until homogeneous.

We recommend to fill the mixed material into a clean container and mix again shortly as described above to avoid incorrect mixing. During mixing and handling of the materials always wear protective goggles, suitable gloves and other protective clothing.

### APPLICATION CONDITIONS

Substrate temperature shall be above 0°C and at least 3°C above the dew point. The surface must be dry and free from ice.

Ambient air temperature shall be above + 5°C.

Material temperature shall be above + 10°C.

Relative air humidity shall be below 85 %.

### APPLICATION EQUIPMENT

The mixed screed is applied and spread, using a trowel or float, after pouring onto the substrate, to an even wet film thickness of 3 mm, 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.

### RECOMMENDED SYSTEMS

#### Steel

1 x Macropoxy® primer (optional)

1 x Epidek™ M153

1 x Acrolon® topcoat (for marking)

Compatible with a wide range of Sherwin-Williams Macropoxy® primers and Acrolon® topcoats.

It is preferred that whenever practical Epidek™ M153 should be applied directly on to blast cleaned steel to Sa 2½. Epidek™ M153 may be applied over an approved high build epoxy primer.

### ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

#### Calcined Bauxite Aggregate

The standard aggregate size supplied by Sherwin Williams is 1 - 3 mm. It is possible to use alternative grades sourced externally. Please consult Sherwin Williams for guidance.

Note: Consumption of aggregate will depend upon screed thickness, efficiency of excess aggregate recovery and recycling.

Numerical values quoted for physical data may vary slightly from batch to batch.



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### HEALTH & SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

### WARRANTY

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

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