



# NETWORK RAIL                      Specification

## Maintenance Work                M31

### PROTECTIVE SYSTEM M31/005: Protective System for Galvanized Steel

#### FOR THIS ENVIRONMENT:

<i>Galvanized Steel/Epoxy MIO Paint System:</i>	C2, C3, C4, C5-I, C5-M (BS EN ISO 12944-2)
<i>Life to First Major Maintenance:</i>	Up to 25 years

#### SPECIFICATION:

<i>Surface Preparation:</i>	<b>Prepare exposed steel to St3 surface standard (BS EN ISO 8501-1). Abrade and degrease all areas to receive paint</b>		
<i>Coat</i>	<i>Material</i>	<i>mdft (<math>\mu</math>m)</i>	<i>Applied</i>
<b>Primer (Exposed Steel Surfaces Only)</b>	<b>Metagard K232 Zinc Rich Epoxy Primer</b>	<b>50</b>	<b>Site</b>
<b>Buildcoat</b>	<b>Epigrip K267 MIO Finish</b>	<b>125</b>	<b>Site</b>
<b>Finish</b>	<b>Resistex C137V2 Special Finish</b>	<b>50</b>	<b>Site</b>

**PADS Reference: 028/980488**

#### Notes on this Specification:

All film thicknesses shown are minimums.

Where a stripe coat is specified apply one coat of Epigrip K267 at 75 $\mu$ m mdft by brush between the buildcoat and the finish.

It may be necessary to apply more than one coat of finish for certain colour shades (e.g. some pastel shades and bright strong colours).

All materials should be obtained from Sherwin-Williams and must be applied in accordance with the relevant Technical Data Sheet.

This Specification is specifically subject to the disclaimer which can be found at <http://protectiveemea.sherwin-williams.com/Home/Disclaimer>



## Repair Work to Damaged Areas and those Masked by Scaffold:

All points of damage incurred at any stage of the work, including any site welding and areas masked by scaffold, should receive remedial preparation and painting equivalent to the specified protective system.

Damaged paintwork should be prepared back to a feathered edge of sound paint. This area, together with a further 50mm into the adjacent areas of sound paintwork, should be appropriately prepared and cleaned down. All paint coats should be reapplied such that the edges of the sound protective system are enveloped.

NATURE OF DAMAGE	REMEDIAL TREATMENT
Damage to top coat only	Lightly abrade and clean down all areas to receive paint. Carefully touch in with one coat of Resistex C137V2 Special Finish to give a dry film thickness of 50µm.
Damage to top coat and buildcoat	Prepare as above and carefully touch in with one coat of Epigrip K267 MIO Finish to give a minimum dry film thickness of 125µm and one coat of Resistex C137V2 Special Finish to give a minimum dry film thickness of 50µm.
Damage of coating back to bare galvanized steel	Prepare as above. Lightly abrade any exposed bright galvanized steel areas and carefully touch in with one coat of Epigrip K267 MIO Finish to give a minimum dry film thickness of 125µm and one coat of Resistex C137V2 Special Finish to give a minimum dry film thickness of 50µm.
Damage of galvanized coating back to bare steel	Mechanically prepare exposed steel to St3 (BS EN ISO 8501-1). This process should be limited to minimise damage to sound adjacent galvanized steel. Spot prime bare steel areas with one coat of Metagard K232 Primer to give a minimum dry film thickness of 50µm. Carefully touch in with one coat of Epigrip K267 MIO Finish to give a minimum dry film thickness of 125µm and one coat of Resistex C137V2 Special Finish to give a minimum dry film thickness of 50µm.

## Product Information:

The following products are components of Network Rail Protective System M31, and are relevant to Sherwin-Williams Registration Certificate Reference M31/005. These should be used in accordance with the appropriate Product Data Sheets and Network Rail Guidance Note NR/GN/CIV/002: The Use of Protective Coatings and Sealants.

Item No.	Product Description	Volume Solids (%)	WFT (microns)	DFT (microns)	Theoretical Coverage (m <sup>2</sup> /ltr)	Minimum Overcoating Time (20°C)
7.1.3	Metagard K232 Zinc Rich Epoxy Primer	45	111	50	9.0	2½ hrs
7.2.1	Epigrip K267 MIO Finish	66	189	125	5.3	5 hrs
7.3.1	Resistex C137V2 Special Finish	54	93	50	10.8	7 hrs

N.B. The above table is for guidance only. Refer to the appropriate product data sheet for more detail.

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