



# PPG Network Rail Systems Guide

New works and maintenance



**PPG Protective &  
Marine Coatings**

Bringing innovation to the surface.™



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## New works and maintenance

**PPG Protective & Marine Coatings (PPG) is a world leader in protective and marine coatings.**

Our global capabilities and respected protective coatings brands enable us to provide our customers with exceptional products, performance and service. Our proven and trusted products protect a wide range of assets for the most demanding markets and environments, including:

- Civil Infrastructure
- Offshore
- Petrochemical
- Power
- Rail
- Marine
- Mining

PPG has the scale and resources to deliver outstanding support with well-established operations in over 60 countries. Continuous development ensures that we provide optimum solutions for asset owners, contractors, fabricators and applicators across the globe, helping our customers to meet the challenges they face today and tomorrow.

**Experience, innovation and integrity – that is what makes PPG the ideal coatings partner.**



## Introduction

This Network Rail Systems Guide has been published to assist in selecting the PPG products and systems that comply with the surface preparation and protective coating standard, as described in Network Rail standard NR/L3/CIV/039.

Systems for both new works and maintenance are listed.

Information detailed in the Network Rail Systems Guide includes certificate numbers, PADS catalogue numbers, products and dry film thicknesses and also certificate lifetimes.

Technical support is also offered to Network Rail contracts which includes meetings with clients/consultants and site visits. Our Field Technical Engineers are strategically placed throughout the country to ensure that all areas can be supported.

PPG also offer a wide range of other approved coating systems including Highways Agency, NORSOK M-501, ISO 12944-5 and WRAS (Potable Water).



# New works

## PPG Network Rail systems guide

### System N1

#### Thermally sprayed metal/epoxy protective system - polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
N1-104 30.01.2015	0028/980409	SIGMA EP159 SEALER SIGMA EP112 MIOCOAT SIGMADUR 550 OR 520	25µm 150µm 50µm	25 Years

### System N1 (XN90)

#### Thermally sprayed metal/epoxy protective system – epoxy acrylic topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XN90/N1-062 30.01.2015	0028/980410	SIGMA EP159 SEALER SIGMA EP112 MIOCOAT SIGMADUR 540	25µm 150µm 50µm	25 Years

### System N2 (XN90)

#### Epoxy glassflake protective system – polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XN90/N2-107 15.05.15	0028/980592	SIGMACOVER 280 SIGMASHIELD 460 SIGMADUR 550, 550H OR 520	50µm 250µm 50µm	25 Years

#### Epoxy glassflake protective system – epoxy acrylic topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XN90/N2-107 15.05.15	0028/980592	SIGMACOVER 280 SIGMASHIELD 460 SIGMADUR 540	50µm 250µm 50µm	25 Years

### System N4 (XN90)

#### Epoxy mio protective system – polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XN90/N4-093 04.04.2013	0028/980563	SIGMAPRIME 700 SIGMACOVER 410 MIO SIGMADUR 550 OR 520	100µm 125µm 50µm	25 Years

#### Epoxy mio protective system – epoxy acrylic topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XN90/N4-093 04.04.2013	0028/980562	SIGMAPRIME 700 SIGMACOVER 410 MIO SIGMADUR 540	100µm 125µm 50µm	25 Years

## System N9

### Protective system for galvanised steel - polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
N9-034 27.02.2015	0028/980471	SIGMACOVER 280 SIGMADUR 550 OR 520	100µm 50µm	25 Years

## System N9 (XN90)

### Protective system for galvanised steel - epoxy acrylic topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XN90/N9-068 27.02.2015	0028/980472	SIGMACOVER 280 SIGMADUR 540	100µm 50µm	25 Years

## System N12.1

### Epoxy mio protective system for the interior of box girders

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
N12.1-009 30.01.2015	0028/980417	SIGMA EP111 PRIMER SIGMA EP112 MIOCOAT	100µm 125µm	15 Years

## System N13

### Epoxy protective system for steelwork for interior environments – polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
N13-013 30.01.2015	0028/980416	SIGMA EP110 PRIMER SIGMA EP112 MIOCOAT SIGMADUR 550 OR 520	50µm 125µm 50µm	25 Years

## System N13 (XN90)

### Epoxy protective system for steelwork for interior environments – epoxy acrylic topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XN90/N13-104 27.02.2015	0028/980415	SIGMA EP110 PRIMER SIGMA EP112 MIOCOAT SIGMADUR 540	50µm 125µm 50µm	25 Years

## System X099

### Anti-slip floor coating (item 5.12.1)

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
X099-012 11.12.2012	0028/980564	SIGMA COLTURA TEP TARFREE + MINERAL ANTI-SLIP AGGREGATE	2000-4000µm	25 Years

# Maintenance

## PPG Network Rail systems guide

### System M20 (XM92)

#### Protective system for existing structures using epoxy – polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M20-175 04.04.2013	0028/980554	SIGMAPRIME 700 SIGMACOVER 410 MIO SIGMADUR 550 or 520	100µm 125µm 50µm	25 Years

#### Protective system for existing structures using epoxy – epoxy acrylic topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M20-178 04.04.2013	0028/980555	SIGMAPRIME 700 SIGMACOVER 410 MIO SIGMADUR 540	100µm 125µm 50µm	25 Years

### System M21 (XM92)

#### Protective system for existing structures using epoxy glassflake – polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M21-192 15.05.15	0028/980592	SIGMACOVER 280 SIGMASHIELD 460 SIGMADUR 550, 550H OR 520	50µm 250µm 50µm	25 Years

#### Protective system for existing structures using epoxy glassflake – epoxy acrylic topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M21-192 15.05.15	0028/980592	SIGMACOVER 280 SIGMASHIELD 460 SIGMADUR 540	50µm 250µm 50µm	25 Years

#### Protective system for existing structures using epoxy glassflake – polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M21-121 10.05.2010	0028/980473	SIGMASHIELD 400 SIGMADUR 550	400µm 50µm	25 Years

### System M24 (XM92)

#### Patch repair of aged alkyd & acrylated rubber systems on existing structures using a durable two pack protective system spot blast Sa 2½ – polyurethane topcoat

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M24-193 15.05.15	0028/980593	SIGMACOVER 350 ALUMINIUM SIGMACOVER 350 SIGMADUR 550, 550H OR 520	100µm 100µm 50µm	25 Years

## System M24 (XM92) continued

**Patch repair of aged alkyd & acrylated rubber systems on existing structures using a durable two pack protective system spot blast Sa 2½ – epoxy acrylic topcoat**

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M24-193 15.05.15	0028/980593	SIGMACOVER 350 ALUMINIUM SIGMACOVER 350 SIGMADUR 540	100µm 100µm 50µm	25 Years

**Patch repair of aged alkyd & acrylated rubber systems on existing structures using a durable two pack protective system St 3 – polyurethane topcoat**

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M24-194 15.05.15	0028/980593	SIGMACOVER 350 ALUMINIUM SIGMACOVER 350 SIGMADUR 550, 550H OR 520	100µm 100µm 50µm	15 Years

**Patch repair of aged alkyd & acrylated rubber systems on existing structures using a durable two pack protective system St 3 – epoxy acrylic topcoat**

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M24-194 15.05.15	0028/980593	SIGMACOVER 350 ALUMINIUM SIGMACOVER 350 SIGMADUR 540	100µm 100µm 50µm	15 Years

## System M27.4 (XM92)

**Protective system for existing structures using bitumen**

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M27.4-120 27.02.2015	0028/980566	SIGMACOVER 690 SIGMA VIKOTE 63 SIGMA VIKOTE 63	100µm 200µm 200µm	25 Years (Sa 2½) 15 Years (St 3)

## System M34

**1 or 2 coat system for using on short possessions – polyurethane topcoat**

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
M34-008 03.06.2013	0028/980565	SIGMASHIELD 880 SIGMADUR 550 OR 520	400µm 50µm	25 Years (Sa 2½) 15 Years (St 3 or sound existing coatings)

## System M34 (XM92)

**1 or 2 coat system for using on short possessions – epoxy acrylic topcoat**

Certificate No & Date	PADS Catalogue No	Products	Dft	Cert. Lifetime
XM92/M34-171 28.01.2013	0028/980560	SIGMASHIELD 880 SIGMADUR 540	400µm 50µm	25 Years (Sa 2½) 15 Years (St 3 or sound existing coatings)



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