

PRODUCT GUIDE

Protective Coatings

HMG

Coatings (South) Ltd

www.hmgcoatings.co.uk



PAINTS

Protective Coatings

Protective Coatings are used for corrosion resistance, extend time to maintenance, achieve greater chemical resistance, temperature resistance and enhanced decorative finish.

It is essential that products used in very demanding conditions are applied within the guidelines laid down by the coatings manufacture. These will include Surface preparation, application conditions, application methods, film thicknesses, testing and control of the coatings during the application.

It is also essential that the correct coatings are chosen for the substrate material and any special conditions they will encounter. Corrosion, influence of climate, moisture influence and desired Life Span

When considering a paint system numerous International Standards are referenced to help the specifier choose the most appropriate system. These Standards will take into account the life expectancy, conditions of use, if the coating will be immersed or buried in the ground. If the location is coastal, tidal etc

Examples of the systems reference are ISO 12944, Norsok M501. Many countries also have their own National Standards

In this Digital Brochure we look at coatings which will meet either the ISO 12944 or Norsok M501 Standards

Standards are also set for surface preparation which can be referenced in ISO 8501 -1&2 visual Standards and under SSPC-VIS 1, SSPC-VIS 4/NACE Vis 7

HMG Coatings South Ltd are proud suppliers and stockists of Baril Coating Systems



Steelkote System

Ultimate Steel Protection

Steelkote systems protect steel over very long periods. They enable intervals of up to 25 years for major maintenance. This sharply reduces total cost of ownership. Protection under extreme heavy atmospheric circumstances are covered by Norsok Certified Steelkote Systems

Reduced Environmental Impact

By providing high solids and using thin-film technology, Steelkote enables the requirement for less coatings per square meter. This leads to greatly reduced VOC emissions and costs per square meter

More with less

Steelkote provides long-term protection to the substrate under all atmospheric circumstances (in compliance with ISO 12944). Steelkote achieves this with significantly less film thickness than other conventional systems

802 Steelkote EP

High solids epoxy anti corrosive primer/coating

Suitable as a rust-resistant primer on steel, galvanised steel and aluminium.
Suitable as one layer finish inside buildings
For outside applications this coating should be over coated to prevent chalking;

804 Steelkote EP Universal

High Solids Anti Corrosive Epoxy

Extreme adhesion & barrier properties
Extreme corrosion resistance & flexibility
indoors application as a "one coat" system or Primer/coating in epoxy systems;
For outside applications this coating should be over coated to prevent chalking;
Resistant to water spill, various solvents & chemicals
Suitable as a rust-resistant primer on steel, galvanised steel and aluminium.

805 Steelkote EP ZN HS

High Build, High Solids Zinc Rich Epoxy

Extreme adhesion & barrier properties
Extreme corrosion resistance & flexibility
High build zinc rich primer with no mud cracking
Excellent build-on on sharp edges;
Fast curing;
Ready to spray;
Highly flexible;
Alternative for galvanising and zinc silicate



Steelkote System



806 Steelkote EP MIOX

High solids compliant epoxy MIOX

Extreme adhesion & barrier properties
Extreme corrosion resistance & flexibility
NORSOK approved M501 specifications in atmospheric and industrial systems;
Ready to spray at 70% volume solids;
Resistant to water spill, various solvents and chemicals;
For outside applications this coating should be over coated to prevent chalking;
High flash point creates more safety during storage and application
Very low odour impact.

808 Steelkote PC HS UV+

High Solids Polyester Reinforced Polyurethane with excellent anti corrosive properties

Pre-eminently suitable for application at chemical plants, offshore rigs, refineries, containers and constructions in various atmospheric and industrial environments (up to and including C5).
Suitable as DTM coating.
Wet on wet application
Easy mixing ratio
Extreme colour retention and mechanical strength.

807 Steelkote PC HS

High Solids Polyester Reinforced Polyurethane with anti corrosive properties

Pre-eminently suitable for application at chemical plants, offshore rigs, refineries, containers and constructions in various atmospheric and industrial environments (up to and including C5).
Suitable as DTM coating up to C2
Wet on wet application
Easy mixing ratio
Extreme colour retention and mechanical strength.

814 Steelkote IM TR

Universal high solids tar replacement epoxy coating, with micaceous iron oxide

Extreme adhesion & barrier properties
Extreme corrosion resistance & flexibility
High film build flexible epoxy immersion coating (extreme impermeability)
Good water and chemical resistance and High mechanical strength;
Also suitable for immersion;
Applicable at 5°C and 90% relative humidity;

815 Steelkote IM Mastic AL

A surface tolerant two component, compliant anti corrosive aluminium mastic primer coating

Suitable for ST-2 or SA Blast cleaned surfaces
Immersion qualified
Ocean proofed; splash zone resistant
Super high solid :Abrasion resistant
Extreme mechanical properties
Good curing at low temperatures (5°C)
Easy application by airless as well as by brush/roller
Suitable for application up to and including C5-I, C5-M, IM-1, IM-2, IM-3 environments to ISO 12944
For outside applications this coating should be over coated to prevent chalking;
In combination with 16738 UniCure Miox, Norsok M501 system 7 (immersion) certified.

816 Steelkote IM Mastic MIO

Developed as a surface tolerant 2 pack maintenance sealer/coating on ST-2 cleaned surfaces as well as Sa2½ blast cleaned

Early water resistance and good wetting enables application at high relative humidity (90%, dampness)
Coat-able with itself, epoxy and polyurethane coatings, vinyl and alkyd products.
A very tight, impenetrable coating, resistant to abrasion, chemical impact and water immersion, even as a single coat system.
Extreme mechanical properties;
Good curing at low temperatures (5°C);
Easy application by airless as well as by brush/roller;
Suitable for application up to and including C5-I, C5-M, IM-1, IM-2, IM-3 environments to ISO 12944;
For outside applications this coating should be over coated to prevent chalking;
In combination with 16638 UniCure AL, Norsok M501 system 7 (immersion) certified.



DualCure System

Life Time Protection

A new generation combining superior durability with extremely fast curing. The cold cure coating cures very fast without additional heat. The reaction to outdoor moisture molecular curing provides an extremely strong and flexible coating

Two Coats in a single day

Dualcure cures very fast and is applied in a maximum of 2 coats which can be applied in the same day. After one coat is applied items can be processed or transported within 1 hour (depending on circumstances)

Abrasion Resistance & Low Maintenance

Superb abrasion and adhesion with permanent flexibility results in lifetime protection. Two coats of Dualcure, together 200 microns dft protect the substrate in a C5 environment for up to 25 years

Up to 60% less film thickness

Using very thin coats Dualcure reduces VOC emissions and can offer 25 years protection in one coat in a C3 environment

306 Dualcure Zinc Primer

High Build Zinc Rich Primer on blasted steel

- Extreme corrosion resistance
- Formulated for ease of application
- Low temperature cure
- Resistant to mud cracking at high films
- Extreme mechanical properties
- >30 years durability in combination with DCC Topcoat.
- Salt spray iso 9227-NSS/ASTM B117 >9750 hrs

604 DualCure ISO Primer

Aluminium Reinforced Heavy Duty Primer

- Universal Adhesion Primer for SA2.5 blasted steel, Hot Dip Galvanised, aluminium and stainless steel structures in marine and offshore environments
- resistant to sea and sewage water

173i2 DualCure LX DTM Finish 60

Dualcure High Solids with extended pot life

Fast curing without heat

- Extreme Mechanical and weathering properties
- Outperforms Powder Coatings
- Thin film technology
- Anti Graffiti
- >30 years durability in conjunction with DCC Zinc Primer



Lifespan 123

Designed to assist anyone involved in the design and construction of structural or architectural fabrication. By following the 1,2,3 process you are able to select the coatings system best suited to your project based on environment, life expectancy and budget

1. Select the Environment
2. Select the Life Expectancy
3. Select the Coating System

1.

Environment ISO12944-2	Exterior	Interior
C1 - Very Low Corrosive indoors	N/a	Heated buildings with clean indoor climate. Offices, shops, schools, distribution centres
C2 - Low Corrosive indoor	Atmospheres with low level of pollution. Mostly rural areas	Unheated Buildings where condensation may occur
C3 - Medium Corrosive Outdoors	Industrial atmospheres with moderate sulphur dioxide pollution. Coastal areas low salinity	Industrial Buildings with high humidity and some air pollution such as Laundries and Breweries
C4 - High Corrosive outdoors	Industrial areas and coastal areas with moderate salinity	Chemical plants, swimming pools, ship and boatyards
C5I - Very High Corrosive Outdoors (Industrial)	Industrial areas with high humidity and corrosive atmosphere	Buildings or areas with almost permanent condensation and with high pollution
C5M - Very High Maritime Corrosive Outdoors	Marine Coastal. And off shore	N/a
Norsok M501 Im1	Immersion in fresh water River installations	Immersion in fresh water
Norsok M501 Im2	Immersion in salt water. Sluice doors Bridge elements etc	Immersion in salt/brackish water
Norsok M501 Im3	Immersion in soil, underground tanks, lighting masts etc	No longer accessible

2.

System Durability	Years to first Major Maintenance
Medium	5 -15Years
High	>15 Years
Very High	15 - 25 Years

Lifespan 123

Steelkote System

3.

Corrosion Class	Steelkote product	Medium 5-15 years	High >15 years	VeryHigh 15-25years
C1 & C2	Layer 1 802 Steelkote EP	60 microns	80 microns	100 microns
C3	Layer 1 802 Steelkote EP Layer 2 807 Steelkote PC HS	60 microns 60 microns	80 microns 60 microns	100 microns 80 microns
C4	Layer 1 804 Steelkote EP Layer 2 804 Steelkote EP Layer 3 808 SteelkotePU HS UV+	--- 100 microns 80 microns	60 microns 80 microns 60 microns	80 microns 100 microns 80 microns
C4 Galvanised	Layer 1 806 Steelkote EP Miox Layer 2 808 SteelkotePU HS UV+	80 microns 60 microns	80 microns 80 microns	100 microns 100 microns
C5M	Layer 1 805 Steelkote EP ZN HS Layer 2 806 Steelkote EP Miox Layer 3 808 SteelkotePU HS UV+	60 microns 100 microns 60 microns	80 microns 100 microns 80 microns	100 microns 120 microns 100 microns
C5I	Layer 1 804 Steelkote EP Layer 1 804 Steelkote EP Layer 3 808 SteelkotePU HS UV+	80 microns 80 microns 60 microns	80 microns 100 microns 80 microns	100 microns 120 microns 100 microns
Norsok M501 7B IM1,2&3	Layer 1 815 Steelkote IM Mastic AL Layer 2 816 Steelkote IM Mastic Miox			225 microns 225 microns
Norsok M501 7B IM1,2&3	Layer 1 604 DualCure Iso Primer Layer 2 814 Steelkote IM TR Layer 3 814 Steelkote IM TR			80 microns 175 microns 175 microns

DualCure System

Corrosion Class	DualCure Product	Medium 5-15 years	High >15 years	VeryHigh 15-25years
C1 & C2	Layer 1 173i2 DualCure LX DTM Finish 60			80 microns
C3	Layer 1 173i2 DualCure LX DTM Finish 60		80 microns	100 microns
C4	Layer 1 306 DualCure Zinc Primer Layer 2 173i2 DualCure LX DTM Finish 60		60 microns 60 microns	80 microns 80 microns
C4 Galvanised	Layer 1 604 DualCure Iso Primer Layer 2 173i2 DualCure LX DTM Finish 60			60 microns 60 microns
C5 M	Layer 1 306 DualCure ZincPrimer Layer 2 173i2 DualCure LX DTM Finish 60	60 microns 60 microns	80 microns 80 microns	100 microns 100 microns
C5 I	Layer 1 306 DualCure ZincPrimer Layer 2 173i2 DualCure LX DTM Finish 60	60 microns 40 microns	80 microns 60 micron	100 microns 100 microns