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| Our Coating Range

Our deep-rooted partnerships with the world's leading mills enables us to ensure we have the most advanced coating range available on the market to satisfy your building envelope needs.

We have worked tirelessly to put together an unrivalled coating range within the industry offering superior quality and performance. All our colour coated material comes with a full mill backed guarantee offering piece of mind through the life of the project. Protecting your investment whilst reducing your environmental impact

F200 Plastisol

The requirements of Plastisol has evolved over time to offer increased performance and enhanced guarantees. Our F200 Plastisol sets the standards for a building envelope offering Excellent Corrosion Resistance (RC5) plus superior UV rating all with a mill backed guarantee up to 30 Years.

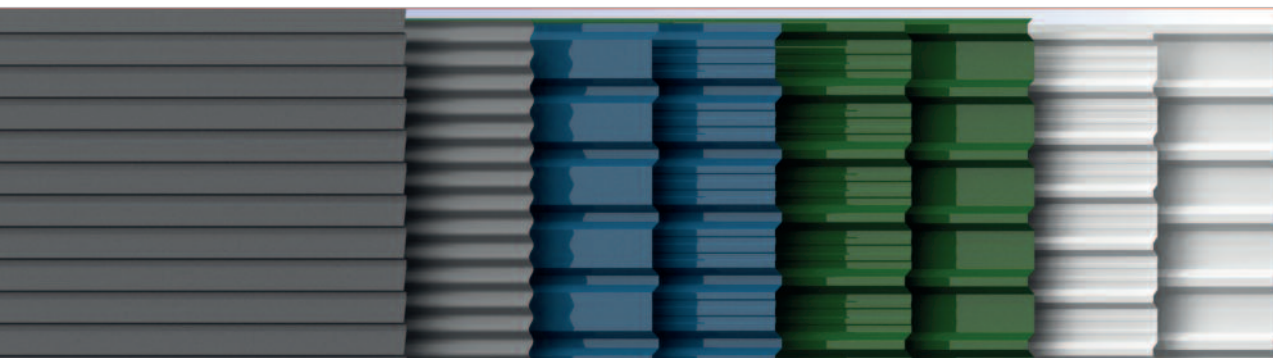
GreenCoat®

Our unique partnership with SSAB enables us to offer a fresh new approach to the external coating options available for your building. The revolutionary GreenCoat range gives Architects, Specifiers and Building Owners creative and innovative options for your buildings, whilst using the most sustainable colour coated steel products on the market. GreenCoat offers an innovative; eco-conscious colour coated steel solution for the building industry and has been developed specifically to provide building envelopes and internal solutions with superior aesthetics, unrivalled performance and above all designed with the future in mind. Build with GreenCoat, this technology is designed for your next generation.

Why Choose Coloured Coated Steel for buildings?

Steel in buildings is nothing new. However, our unique coating range offers an unrivalled range of options on some of the best steels available on the market.

- Innovative aesthetics - Offers freedom for architects and designers
- Available in a large variety of colours and surface appearances
- Provides safe and sustainable climate protection
- Low maintenance costs
- Long lasting
- 100 % recyclable with no loss of quality
- Lowest thermal expansion rates compared to other metals – less prone to buckling





F200 Plastisol

F200 Plastisol is pre-painted steel coated with a 200 micron, leather grain embossed Plastisol. F200 Plastisol combines high wear resistance with high durability against corrosion.

Historically, Plastisol has been used widely within the UK on a range of buildings and applications. Over the years the performance requirements for Plastisol have evolved to require longer guarantees and enhanced performance. As the demands have evolved so has our F200 Plastisol.

F200 Plastisol has been developed in partnership with our trusted supply partners to offer a mill backed guarantee available for up to 30 years.*

F200 combines high wear resistance with high durability against corrosion. With a corrosion rating of RC5 and superior durability when exposed to foot traffic and other roof stresses, F200 Plastisol exceeds the standard required for a building envelope.

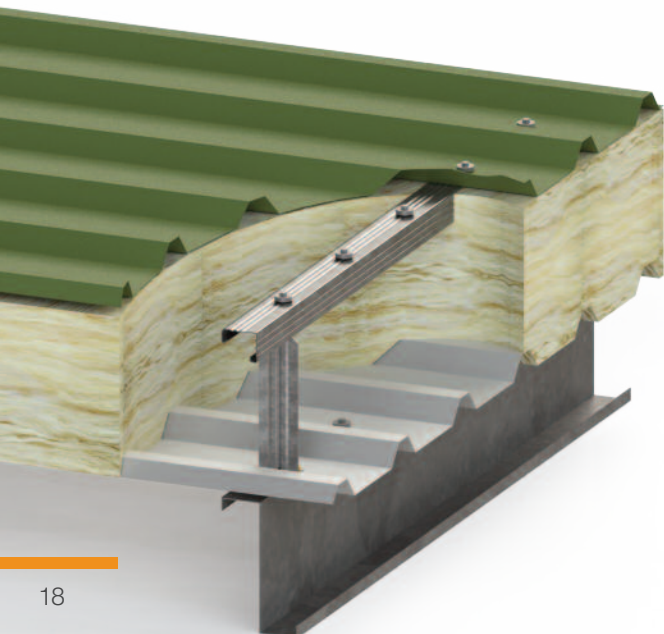
We stock F200 Plastisol at our Brighthouse facility in an extensive spectrum of colours, with the ability to source material to almost every RAL code.

Features

- 30 Year Guarantee available*
- Leather Grain embossed texture finished
- Suitable for roof pitches down to 4°
- High colour and gloss stability
- High build primer with excellent corrosion resistance
- Excellent formability
- Comprehensive colour range
- Factory cut edges covered under the guarantee

Technical Properties

Coating Guarantee	30 Years*
Coating Thickness	200 Micron
Reverse Coating	12 Microns
Coating Embossing	Leather Grain
Scratch Resistance	45N
UV Radiation Resistance	R _{UV} 3
Corrosion Resistance	RC5
Stain Resistance	Satisfactory
Highest Operating Temperature	60 Degrees
Fire Classification	C-S2-D1
Minimum Pitch	>4 Degrees



*Guarantee subject to application, colour and location

GreenCoat® Hiarc Max



GreenCoat Hiarc Max is a patented colour coated system developed by SSAB Swedish Steel. The coating offers superior performance for roofing, cladding and internal applications that are in aggressive environments.

With an assured corrosion resistance rating of RC5 and an excellent UV rating of Ruv4, GreenCoat Hiarc Max is best suited for environments classed as aggressive, humid or coastal. The coating also offers extreme resistance to staining and dirt penetration due to its low surface energy which in turn gives this product enhanced classification - low maintenance.

GreenCoat Hiarc Max has been specifically designed for challenging environments. We know this product is fit for purpose because it has been tested thoroughly. Not just in a laboratory but in external testing stations throughout the world, such as Florida and Arizona US, China, Australia, Lisbon POR, Brest FRA and Bohus-malmon SWE. That's the difference, SSAB Swedish Steel do not just rely on accelerated test results, they combine them with real environmental conditions. By doing so we know that this product is assured for the application you have in mind.

Features

- 40 Year Guarantee available*
- UV and temperature resistance
- Extreme colour and gloss stability - Superior resistance against colour change and fading
- High build primer with excellent corrosion resistance
- Best in class chemical resistance
- Excellent stay clean properties with dirt pickup resistance
- Heat reflectance
- Fully chromate free
- Excellent formability
- Comprehensive colour range
- Metallic colours available

GreenCoat Hiarc Max Vs Polyester

(SFS-EN ISO 2812-1)

Tested Chemical	Hiarc Max	Polyester
Strong Acid - 5% Sulphuric Acid	Very Good	Limited
Weak Acid - 5% Acetic Acid	Very Good	Limited
Strong Basic - 5% Sodium Hydroxide	Very Good	Limited
Weak Basic - 5% Ammonia	Very Good	Limited
Aliphatic Solvent (N-Heptane)	Good	Limited
Aromatic Solvent	Limited	Limited
Alcohol - 50% Ethanol	Very Good	Limited
Ketone - Acetone	Limited	Limited
Turpentine - White Spirit	Very Good	Limited

Chemical Resistance: ■ Very Good ■ Good ■ Limited

Technical Properties

Coating Guarantee	40 Years*
Coating Thickness	40 Micron
Reverse Coating	20 Microns
Coating Embossing	Smooth
Scratch Resistance	35N
UV Radiation Resistance	R _{UV} 4
Corrosion Resistance	RC5
Stain Resistance	Excellent
Highest Operating Temperature	110°C
Fire Classification	A2 S1 d0

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GREENCOAT®
COLORFUL STEEL

* Guarantee subject to application, colour and location



GreenCoat® Hiarc Max Cool

GreenCoat Hiarc Max Cool acts as a heat shield for your building and as with all GreenCoat products is characterised by its high quality offering excellent formability, high scratch resistance and long lasting appearance.

GreenCoat Hiarc Max Cool for roofing features special solar heat reflecting properties that make the surface stay cooler than regular coated surfaces. For buildings that need cooling, this product helps to save energy and increases the thermal comfort.

The largest difference in surface temperature between GreenCoat Hiarc Max Cool and standard products is achieved for dark colours.

The reverse side of the sheet is painted as standard with a two-layer grey backside coating. GreenCoat colour coated products are all manufactured according to EN 10169 + A1.

GreenCoat Hiarc Max Cool

Typical colour values

Total solar reflectance¹ and Thermal IR emittance² describes the product properties.

Colours	Thermal total solar reflectance ¹	
	Hiarc Max Cool	Standard colour
23 - Dark Grey	0.83	0.87
106 - White	0.85	0.85
40 - Metallic Silver	0.68	0.68
41 - Metallic Dark Silver	0.85	0.72

Colours	Thermal IR emittance ²	
	Hiarc Max Cool	Standard colour
23 - Dark Grey	0.26	0.09
106 - White	0.74	0.74
40 - Metallic Silver	0.55	0.55
41 - Metallic Dark Silver	0.83	0.29

¹ Measurements were taken by an accredited independent test laboratory according to ASTM.

² Measurements were taken by an accredited independent test laboratory according to ASTM EC1371-98

Features

- Acts as a heat shield for your building
- Features special solar heat reflecting properties that make the surface stay cooler than regular coated surfaces
- Helps to save energy and increases the thermal comfort
- Dark colours achieve the largest difference in surface temperature between GreenCoat Hiarc Max Cool and standard products
- Steel substrate: S280GD
- Min steel thickness 0.5mm
- Available in regular (35) gloss finishes

Technical Properties

Coating Guarantee	40 Years*
Coating Thickness	40 Microns
Reverse Coating	12 Microns
Coating Embossing	Slightly Textured
Scratch Resistance	35N
UV Radiation Resistance	R _{UV} 4
Corrosion Resistance	RC5
Stain Resistance	Excellent
Highest Operating Temperature	110°C

GreenCoat® Pural Farm



GreenCoat Pural Farm is an organic coating designed specifically for the walls, roofs and ceilings of agricultural buildings. The coating offers a maximum lifetime with minimum maintenance.

The technical properties of Pural Farm have been carefully developed, tested and selected using SSAB Swedish Steel's in-depth knowledge of polyurethane based coatings. Thanks to its excellent technical properties including corrosion resistance, chemical resistance, UV radiation resistance and stay-clean properties, Pural Farm is the best possible organic coating for agricultural buildings.

GreenCoat Pural Farm offers high performance in agricultural roofing and cladding applications. With an assured corrosion resistance rating of RC4 and an UV rating of Ruv4, GreenCoat Pural Farm is best suited for environments that require an excellent chemical resistance.

Features

- Proven performance
- Ideal cladding for agricultural buildings
- Excellent stay clean properties
- Excellent chemical resistance
- Very good scratch resistance
- Fully chromate free
- Available double sided
- Excellent formability

GreenCoat Pural Farm Coating Chemical Resistance

	Tested Chemical	Pural Farm	Polyester
Fertiliser & Pesticides	Fertiliser 10% Phosphates	Good/Excellent Resistance	Good/Excellent Resistance
	Fertiliser Ammonium Phosphate	Good/Excellent Resistance	Good/Excellent Resistance
	Fertiliser NPK 25:5:5	Good/Excellent Resistance	Good/Excellent Resistance
	Fertiliser NPK 5:24:15	Good/Excellent Resistance	Good/Excellent Resistance
	Wood Preservative (Cuprinol)	Good/Excellent Resistance	Good/Excellent Resistance
	Weed Killer	Good/Excellent Resistance	Moderate/Poor Resistance
Animal Waste & Feed	10% Hydrochloric Acid	Good/Excellent Resistance	Moderate/Poor Resistance
	10% Phosphoric Acid	Good/Excellent Resistance	Moderate/Poor Resistance
	10% Lactic Acid	Good/Excellent Resistance	Moderate/Poor Resistance
	10% Sulphuric Acid	Moderate/Poor Resistance	Moderate/Poor Resistance
	10% Acetic Acid	Moderate/Poor Resistance	Moderate/Poor Resistance
	10% Butyric Acid	Good/Excellent Resistance	Good/Excellent Resistance
Detergents & Disinfectants	Ethanol	Good/Excellent Resistance	Moderate/Poor Resistance
	1% Sodium Hydrochlorite Solution	Good/Excellent Resistance	Moderate/Poor Resistance
	White Spirit	Good/Excellent Resistance	Moderate/Poor Resistance
	Antiseptic Drench	Moderate/Poor Resistance	Moderate/Poor Resistance

Chemical Resistance: ■ Good/Excellent Resistance ■ Moderate/Poor Resistance



Coatings - Sustainability

A number of SSAB GreenCoat® products feature a patented Bio-based Technology (BT) coating where a substantial portion of the traditional fossil oil is replaced by Swedish rapeseed oil, which is unique on the market.

This unique technology not only offers environmental advantages but at the same time provides high colour retention and long lasting finishes that resist corrosion and UV radiation as well as scratches and the build-up of dirt.

This is ensured through numerous outdoor testing sites located in harsh environments across the world. Over 10,000 panels of GreenCoat colour coated steel have been exposed year-round to harsh climates and conditions including saltwater, snow, ice, rain, UV-radiation, high humidity, wind and storms.

GreenCoat® Crown BT



GreenCoat Crown BT is an eco-friendly colour coated system developed by SSAB Swedish Steel.

The Bio-based Technology (BT) properties in the coating have been optimised for roofing products. The product is manufactured according to the BT patent (Bio-based Technology) and therefore holds a high environmental position. In BT coatings, a substantial portion of the traditional fossil content is replaced by a bio-based component – for greener living. SSAB holds a worldwide patent for this coating technology.

The product possesses very good gloss retention and colour fastness, and also provides good protection against corrosion. It has greater durability than standard polyester when exposed to people walking on the roof and other roof stresses. The minimal texture of the surface enables the product to be used on roof pitches as low as 3 degrees.

GreenCoat Crown BT offers high performance in roofing and cladding applications in aggressive environments. With an assured corrosion resistance rating of RC5 and an UV rating of Ruv3, GreenCoat Crown BT is best suited for environments that require a high performing environmentally friendly product. GreenCoat Crown BT has a slightly textured surface and is available in a wide range of colours in either regular gloss or matt finishes.



Features

- 30 Year Guarantee available*
- Very good colour and gloss stability
- resistance against colour change and fading
- Suitable for roof pitches down to 3°
- Excellent environmentally friendly properties
- Fully chromate free
- Sustainable product
- Excellent formability
- Comprehensive colour range
- Available in both regular and matt finishes

Technical Properties

Coating Guarantee	30 Years*
Coating Thickness	26 Micron
Reverse Coating	12 Microns
Coating Embossing	Slightly Textured
Scratch Resistance	30N
UV Radiation Resistance	R _{UV3}
Corrosion Resistance	RC5
Stain Resistance	Very Good
Highest Operating Temperature	100°C
Fire Classification	A2 S1 d0

*Guarantee subject to application, colour and location



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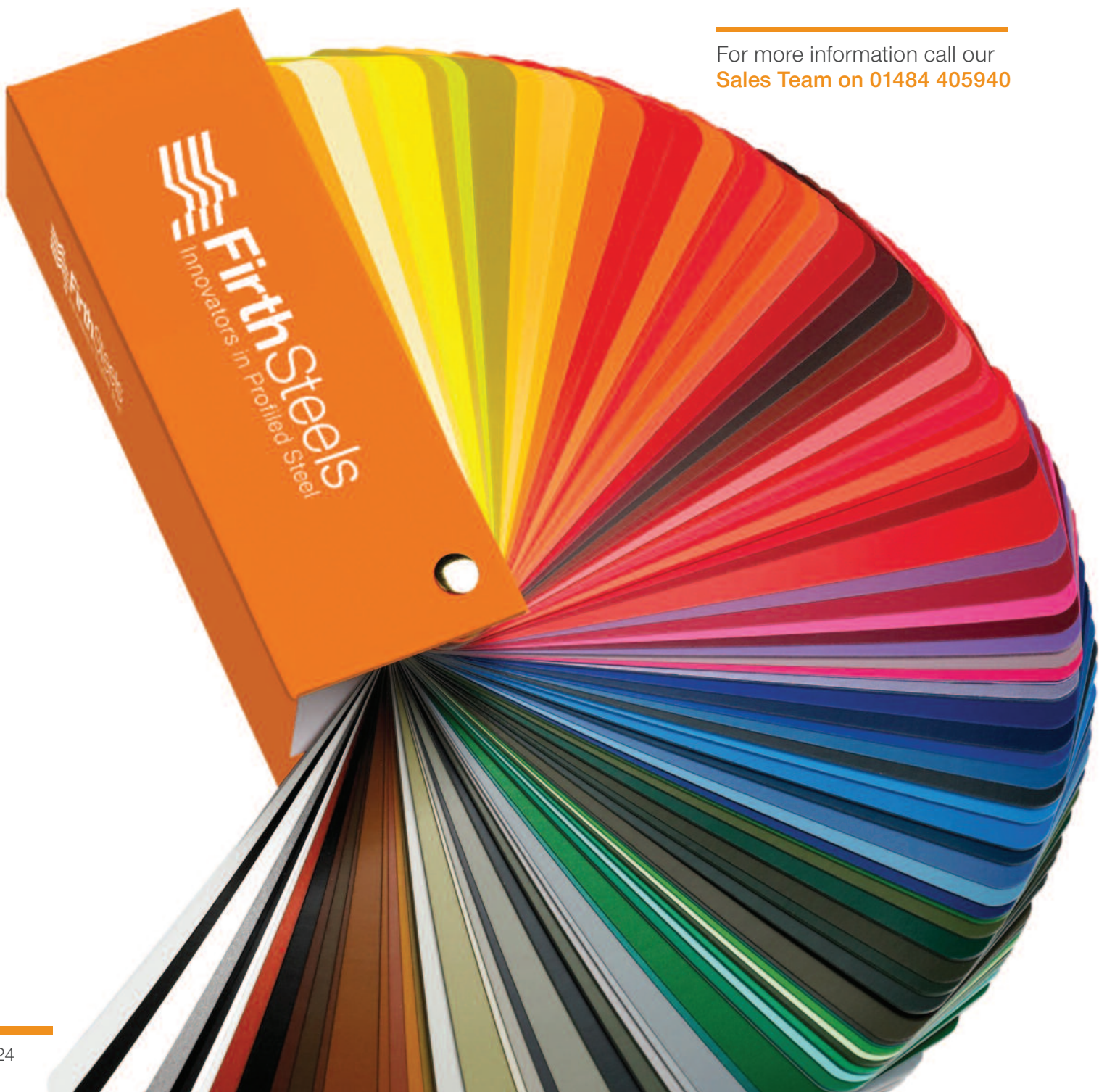
GREENCOAT®
COLORFUL STEEL

| Colour Chart

Established colours such as the ever reliable Goosewing Grey and other primary colours are the foundation of our industry. These mainstream industry colours on occasion give way to an evolved colour range.

This evolved range of colours allows for bespoke designs to be considered and supplied with ease. Our strong partnership with our suppliers ensures that no project is out of our reach from a bespoke colour perspective or the coating's technical assurance on performance. It is possible to match to any RAL colour required including metallic finishes.

For more information call our
Sales Team on 01484 405940



Environmental Classification

Here at Firth Steels we only use quality assured products that have been tested physically at testing stations around the world.

These give actual real life performance ratings through the use of both indoor accelerated testing and outdoor exposure testing in challenging environments which include Florida (UV Stability), China (High Pollution), North West Sweden (coastal) and The Italian Alps (Altitude and UV). Having the products tested in the harshest of conditions allows us to say with complete confidence that our coatings are fit for purpose in all conditions from coastal locations to building that require a high level of chemical resistance or humidity.

Resistance to corrosion or the RC rating should be at the top of your list when deciding on a suitable product. The higher the rating indicates a higher performance against chemical, environmental and humidity resistance. We have a full coating portfolio that offers solutions to all your requirements. As indicated below you can see clearly how our coatings performances are rated.

Corrosivity category	Examples of typical environments in a temperate climate (informative only)		Suitable Coatings/ Liners
	Exterior	Interior	
C1 Very low	-	Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels.	F200 Plastisol GreenCoat Hiarc Max Cool GreenCoat Pural Farm GreenCoat Hiarc Max GreenCoat Crown BT Bright White Liner S280
C2 Low	Atmospheres with low level of pollution. Mostly rural areas.	Unheated buildings where condensation may occur, e.g. depots, sports halls.	F200 Plastisol GreenCoat Cool GreenCoat Pural Farm GreenCoat Hiarc Max GreenCoat Crown BT Bright White Liner S280
C3 Medium	Urban and industrial atmospheres, moderate sulphur dioxide pollution. Coastal areas with low salinity.	Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries, dairies.	F200 Plastisol GreenCoat Hiarc Max Cool GreenCoat Pural Farm GreenCoat Hiarc Max GreenCoat Crown BT Structural Liner S350
C4 high	Industrial areas and coastal areas with moderate salinity.	Chemical plants, swimming pools, coastal ship and boatyards.	F200 Plastisol GreenCoat Hiarc Max Cool GreenCoat Pural Farm GreenCoat Hiarc Max GreenCoat Crown BT
C5-1 very high (industrial)	Industrial areas with high humidity and aggressive atmosphere.	Buildings or areas with almost permanent condensation and with high pollution.	F200 Plastisol GreenCoat Hiarc Max Cool GreenCoat Pural Farm GreenCoat Hiarc Max
C5-M very high (marine)	Coastal and offshore areas with high salinity.	Buildings or areas with almost permanent condensation and with high pollution.	F200 Plastisol GreenCoat Hiarc Max Cool GreenCoat Pural Farm GreenCoat Hiarc Max

Notes

1. The loss values used for the corrosivity categories are identical to those given in ISO 9223.
2. In coastal areas in hot, humid zones, the mass or thickness losses can exceed the limits of category C5-M. Special precautions must therefore be taken when selecting protective paint systems for structures in such areas.



Calderbank, River Street, Brighouse,
West Yorkshire, United Kingdom HD6 1LU

t: +44 (0) 1484 405940

e: info@firth-steels.co.uk

w: firth-steels.co.uk



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