

## GreenCoat Hiarc Max

### General Product Description

GreenCoat Hiarc Max color coated steel is available in regular and matt finishes. It is available in a wide range of colors inspired by Nordic nature.

GreenCoat Hiarc Max is extremely durable (RC5 and Ruv5) and is specifically developed for façades and cassettes. However, it can also be used in roofing applications.

GreenCoat Hiarc Max color coated steel possesses excellent weather resistance properties and tolerates forming well. It offers extremely good corrosion resistance and is well suited for buildings in the harshest environments, like those near a coastline.

Since GreenCoat Hiarc Max products offer a coating containing fluorine, the surface stays cleaner compared to other products. The coating is also easy to clean due to the hard surface.

The reverse side of the sheet is painted with a two-layer grey backside coating.

GreenCoat Hiarc Max complies with current REACH regulations and is fully chromate-free.

SSAB's color coated steels are all manufactured according to EN 10169.

### Technical Properties

Technical Properties	Regular	Matt
Gloss	35***	4
Minimum inner bending radius	1 x t	1 x t
Scratch resistance	35N	35N
UV radiation resistance	R <sub>UV</sub> 5	R <sub>UV</sub> 5
Corrosion resistance*	RC5	RC5
Stain resistance	Excellent	Excellent
Highest operating temperature	110 °C	110 °C
Fire classification, EN 13501-1	A1 s1 d0	A1 s1 d0
Coating thickness, nominal (primer + top coat)	40 µm	40 µm
Coating structure	Smooth	Structured
Steel designation**	S280GD, S320GD, DX51D	S280GD, S320GD, DX51D
Zinc coating	275 g/m <sup>2</sup>	275 g/m <sup>2</sup>
Min steel thickness**	0.50 mm	0.50 mm
Steel width**	1000 - 1420 mm	1000 - 1420 mm

\* Classification into corrosion resistance categories is based on blistering, delamination and damage on bend of the coating after two years exposure in natural outdoor testing sites as specified in EN 10169.

\*\* Maximum steel thickness is 1.5 mm and maximum steel width depends on steel thickness. For other steel dimensions or steel grades please contact SSAB Tech Support.

\*\*\* For some metallic colors the target gloss is different.

## Colors

Below are the colors currently available. Other colors can be agreed upon separately.

To ensure tonal consistency of metallic colors on a single exterior face, all material should come from the same production batch. The directionality of metallic surfaces should also be consistent especially when sheets are cut to size.

Colors	Regular	Matt
Frost White - RR106 / SS0009	x	
Nordic White - RR1H3 / SS0020	x	
Winter White - RR20 / SS0005	x	
Fog White - RR143 / SS----	x	
Goosewing Grey - RR2H5 / SS0461	x	
Cloud Grey - RR2B1 / SS----	x	
Pebble Grey - RR21 / SS0011	x	
Stone Grey - RR22 / SS0554	x	x
Mountain Grey - RR23 / SS0036	x	x
Cliff Grey - RR288 / SS0455	x	
Nordic Night Black - RR33 / SS0015	x	x
Walnut Brown - RR32 / SS0387		x
Cottage Red - RR29 / SS0758	x	
Harvest Yellow - RR24 / SS0189	x	
Pine Green - RR11 / SS0830	x	
Lake Blue - RR35 / SS0558	x	
Metallic Silver - RR40 / SS0045	x	x
Metallic Dark Silver - RR41 / SS0044	x	
Metallic Titanium - RR45 / SS----	x	x
Metallic Gold - RR42 / SS----	x	

## Reverse Side Coating

Unless otherwise specified, the reverse side of the sheet is painted with a two-layer coating to further improve the corrosion resistance of the end product. The coating provides good adhesion properties to many adhesives and foams; nevertheless the compatibility needs to be tested case-specifically.

Technical Properties	
Nominal Coating Thickness (primer + top coat)	12 µm
Color	Grey
Corrosion resistance	Min CPI3

For easy material identification the reverse side of the sheet is stamped with e.g. the GreenCoat logo and the product name. The production year is marked to ease material traceability and can be referred to within the guarantee period. An arrow shows the direction of production to ensure installation in a uniform direction.

## Double Sided Products

GreenCoat Hiarc Max, regular gloss is also available with GreenCoat Hiarc non-metallic colors on the reverse side. However, different sides of the sheet cannot be mixed due to the possibility of a visual difference. The reverse side may show wider variation in color and gloss.

## Protective Film

Temporary protective films are available for protection during processing and installation. Protective films are applied on the top side of the Product. Films will be centered to the strip meaning that typically there are small unprotected areas in both edges of the strip. Unprotected area may be cut away if customer so wishes. Joined film strip ends are marked with red tape on the edge of the Product.

Products with protective film should be stored in dry and warm conditions, since the adhesion between protective film and color coating decreases both in high and low temperatures. Humidity changes also the adhesion properties and in worst case leaves the adhesive part of the film on the Product surface.

Adhesion of protective film increases over time, eventually making it difficult to remove the film from the Product's surface. Due to that, protective film is recommended to be removed from the material as soon as possible, but no later than six months from the manufacturing of the Product or after one month from the end product installation depending on which comes first.

Protective film decreases friction between coil windings, which creates a high risk of coil collapsing on thin gauge coils. Due to the risk of collapsing, SSAB does not recommend protective films for steel nominal thickness ≤ 0,60 mm. If protective film is essential, following precautions must be taken to minimize the risk of collapsing: Max coil weight < 5 tons and self-supporting coil protection shields must be used in the package.

Typical protective film thickness is around 45µm, max working temperature +80°C and max and min stripping temperatures +40°C & -10°C.

Protective film has a good resistance to forming but is susceptible to cuts. When working with material with a protective film, clean tools that do not damage the film, and appropriate methods are to be used. Cutting fluids are not needed because the film protects the material surface and reduces friction. Cutting fluids may also have negative impact on the protective film and its adhesion.

Films used with GreenCoat Hiarc and GreenCoat Hiarc Max metallic colors have arrows indicating the painting direction of the strip, which enhances the use of the material in the manufacturing of end products.

Protective films can be recycled as plastics, combusted or disposed via the municipal waste management system depending on the local waste management guidelines and regulations.

## Contact Information

[www.ssab.com/contact](http://www.ssab.com/contact)

## GreenCoat Pural BT

### General Product Description

GreenCoat Pural BT color coated steel is available in regular and matt finishes and offers a wide range of colors inspired by Nordic nature. It uses a patented bio-based coating having Swedish rapeseed oil instead of traditional fossil oil in the paint, which is unique on the market. SSAB holds a worldwide patent for this coating technology (Bio-based Technology, BT).

GreenCoat Pural BT offers the highest level of durability for roofing applications like standing seams, profiled roof tiles and is used widely in metal roofer applications.

GreenCoat Pural BT color coated steel offers a coating that is optimized to resist weathering resulting in the highest UV (Ruv5 for matt appearance) and corrosion classes (RC5+). The slightly structured surface helps to protect against mechanical wear and is easy to handle during manufacturing. GreenCoat Pural BT possesses excellent forming properties enabling very demanding folding even down to -15°C, allowing for year round installation at lower costs.

The reverse side of the sheet is painted with a two-layer grey backside coating.

GreenCoat Pural BT complies with current REACH regulations and is fully chromate-free.

SSAB's color coated steels are all manufactured according to EN 10169.

### Technical Properties

Technical Properties	Regular	Matt
Gloss	40	< 5
Minimum inner bending radius	1 x t	1 x t
Scratch resistance	40 N	40 N
Lowest forming temperature	-15 °C	-15 °C
UV radiation resistance	R <sub>uv</sub> 4	R <sub>uv</sub> 5
Corrosion resistance*	RC5+	RC5+
Stain resistance	Very good	Very good
Highest operating temperature	100 °C	100 °C
Fire classification, EN 13501-1	A1 s1 d0	A1 s1 d0
Coating thickness, nominal (primer + top coat)	50 µm	50 µm
Coating structure	Structured	Structured
Steel designation**	S280GD, S320GD, S350GD	S280GD, S320GD, S350GD
Zinc coating	275 g/m <sup>2</sup>	275 g/m <sup>2</sup>
Min steel thickness**	0.50 mm	0.50 mm
Steel width**	1000 - 1500 mm	1000 - 1500 mm

\* Classification into corrosion resistance categories is based on blistering, delamination and damage on bend of the coating after four years exposure in natural outdoor testing sites as specified in EN 10169.

\*\* Maximum steel thickness is 1.5 mm and maximum steel width depends on steel thickness. For other steel dimensions or steel grades please contact SSAB Tech Support.

## Colors

Below are the colors currently available. Other colors can be agreed upon separately.

For information on thermal properties (solar reflectance index SRI or thermal emittance TE) of available colors, please contact SSAB Tech Support.

Colors	Regular	Matt
Winter White - RR20 / SS0005	x	x
Snow White - RR19 / SS0001		x
Concrete Grey - RR292 / SS----	x	
Pebble Grey - RR21 / SS0011	x	x
Quarry Grey - RR287 / SS0244	x	x
Stone Grey - RR22 / SS0554	x	x
Rock Grey - RR237 / SS0061	x	
Anthracite Grey - RR2H8 / SS0087		x
Mountain Grey - RR23 / SS0036	x	x
Ridge Grey - RR2F7 / SS0035	x	
Slate Grey - RR2H3 / SS0534	x	x
Nordic Night Black - RR33 / SS0015	x	x
Walnut Brown - RR32 / SS0387	x	x
Chestnut Brown - RR887 / SS0435	x	x
Almond Brown - RR30 / SS0187	x	
Terra Brown - RR31 / SS0433	x	
Cottage Red - RR29 / SS0758	x	x
Tile Red - RR750 / SS0760	x	x
Brick Red - RR7F2 / SS0742	x	
Wine Red - RR798 / SS5781	x	x
Harvest Yellow - RR24 / SS0189	x	
Silver Fir Green - RR5J3 / SS0975		x
Leaf Green - RR594 / SS0874		x
Pine Green - RR11 / SS0830	x	x
Forest Green - RR37 / SS0925	x	
Lake Blue - RR35 / SS0558	x	
Metallic Silver - RR40 / SS0045	x	
Metallic Dark Silver - RR41 / SS0044		x
Metallic Gold - RR42 / SS----	x	
Metallic Copper - RR979 / SS0778	x	x

Note for Metallic and all Matt colors: To ensure tonal consistency of colors on a single exterior face, all material must come from the same production batch. Also the directionality of surfaces has to be consistent especially when sheets are cut to size.

## Reverse Side Coating

Unless otherwise specified, the reverse side of the sheet is painted with a two-layer coating to further improve the corrosion resistance of the end product. The coating provides good adhesion properties to many adhesives and foams; nevertheless the compatibility needs to be tested case-specifically.

Technical Properties	
Nominal Coating Thickness (primer + top coat)	12 µm
Color	Grey
Corrosion resistance	Min CPI3

For easy material identification the reverse side of the sheet is stamped with e.g. the GreenCoat logo and the product name. The production year is marked to ease material traceability and can be referred to within the guarantee period. An arrow shows the direction of production to ensure installation in a uniform direction.

## Contact Information

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