

GreenCoat Hiarc

General Product Description

GreenCoat Hiarc color coated steel is available in regular and matt finishes as well as with a shine effect. It is available in a wide range of colors inspired by Nordic nature.

GreenCoat Hiarc offers the highest level of durability for façades and cassettes where demands are high. However, it can also be used in roofing applications.

The regular and matt finish as well as the metallic colors have a long production experience resulting in good color and gloss consistency. The shine effect finish has a special appearance through a multilayer coating providing glittery, but colored appearance and excellent properties.

GreenCoat Hiarc color coated steel possesses excellent weather resistance properties (Ruv5), corrosion resistance and tolerates forming well. However, if extended corrosion properties are required, such as for buildings near a coastline, we offer GreenCoat Hiarc Max.

Since GreenCoat Hiarc 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. If needed, strippable protective films are available for this product.

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

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

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

GreenCoat and Hiarc are trademarks of the SSAB group of companies.

Technical Properties

Technical Properties	Matt	Regular	Shine effect
Gloss	4	35 ¹⁾	35
Minimum inner bending radius	1 x sheet thickness	1 x sheet thickness	1 x sheet thickness
Scratch resistance	30 N	30 N	35 N
UV radiation resistance	R _{UV} 5	R _{UV} 5	R _{UV} 5
Corrosion resistance ²⁾	RC4	RC4	RC5
Stain resistance	Excellent	Excellent	Excellent
Highest operating temperature	110 °C	110 °C	110 °C
Fire classification, EN 13501-1	A1 s1 d0	A1 s1 d0	–
Coating thickness, nominal (primer + top coat)	27 µm	27 µm ³⁾	40 µm
Coating structure	Structured	Smooth	Smooth glittery
Steel designation ⁴⁾	S280GD, S320GD, DX51D	S280GD, S320GD, DX51D	S280GD, S320GD, DX51D
Zinc coating	275 g/m ²	275 g/m ²	275 g/m ²
Min steel thickness ⁴⁾	0.50 mm	0.50 mm	0.50 mm
Steel width ⁴⁾	1000 - 1420 mm	1000 - 1500 mm	1000 - 1420 mm

¹⁾ For some metallic colors the target gloss is different.

²⁾ 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.

³⁾ Specific colors have higher nominal film thickness value than listed in the table to reach the targeted color.

⁴⁾ 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.

Colors shown in the color table are only indicative. To see the real visual appearance of the product, please order a color sample. Please note also that the same colors between the products may differ.

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

						
Frost White RR106 / SS0009	Nordic White RR1H3 / SS0020	Winter White RR20 / SS0005	Fog White RR143 / SS----	Cloud Grey RR2B1 / SS----	Pebble Grey RR21 / SS0011	Stone Grey RR22 / SS0554
Regular	Regular	Regular Shine effect	Regular	Regular	Regular	Regular
						
Rock Grey RR237 / SS0061	Anthracite Grey RR2H8 / SS0087	Mountain Grey RR23 / SS0036	Cliff Grey RR288 / SS0455	Slate Grey RR2H3 / SS0534	Nordic Night Black RR33 / SS0015	Walnut Brown RR32 / SS0387
Regular	Regular	Regular Matt	Regular	Regular	Regular Matt	Regular Matt
						
Hazelnut Brown RR8H2 / SS0426	Almond Brown RR30 / SS0187	Cottage Red RR29 / SS0758	Tile Red RR750 / SS0760	Harvest Yellow RR24 / SS0189	Silver Fir Green RR5J3 / SS0975	Pine Green RR11 / SS0830
Regular	Regular	Regular	Regular	Regular	Regular	Regular
						
Lake Blue RR35 / SS0558	Ocean Blue RR4F8 / SS0510	River Blue RR34 / SS0557	Metallic Silver RR40 / SS0045	Metallic Dark Silver RR41 / SS0044	Metallic Titanium RR45 / SS----	Metallic Gold RR42 / SS----
Regular	Regular	Regular	Regular Matt	Regular Matt	Regular Matt	Regular
						
Metallic Soft Copper RR43 / SS----						
Regular						

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 the GreenCoat logo and the product name. The production date 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, regular gloss is also available as a double sided product with non-metallic colors for 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 $\leq 0,60$ 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 45 μ m, 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