

GreenCoat Pural BT

General Product Description

GreenCoat Pural BT color coated steel is available in matt, metallic, satin and regular finishes and offers a wide range of colors inspired by Nordic nature. It uses a patented bio-based coating with Swedish rapeseed oil, 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 in metallics, satin and regular finishes are also premium products for facade products like sandwich panels and cassettes.

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 product has excellent scratch resistance 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 newly developed satin appearance of GreenCoat Pural BT responds well to current architectural and design trends. It has a gloss level of 20.

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.

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

Technical Properties

Technical Properties	Matt	Metallic	Satin	Regular
Gloss	< 5	40	20	40
Minimum inner bending radius	1 x sheet thickness	1 x sheet thickness	1 x sheet thickness	1 x sheet thickness
Scratch resistance	40 N	35 N	40 N	40 N
Lowest forming temperature	-15 °C	-15 °C	-15 °C	-15 °C
UV radiation resistance	R _{UV} 5	R _{UV} 4	R _{UV} 4-5	R _{UV} 4
Corrosion resistance ¹⁾	RC5+	RC5+	RC5+	RC5+
Stain resistance	Very good	Very good	Very good	Very good
Highest operating temperature	100 °C	100 °C	100 °C	100 °C
Fire classification, EN 13501-1	A1 s1 d0	A1 s1 d0	A1 s1 d0	A1 s1 d0
Coating thickness, nominal (primer + top coat)	50 µm	45 µm	50 µm	50 µm
Coating structure	Structured and wrinkled	Smooth	Structured	Structured
Steel designation ²⁾	S280GD, S320GD, S350GD, DX51D	S280GD, S320GD, S350GD, DX51D	S280GD, S320GD, S350GD, DX51D	S280GD, S320GD, S350GD, DX51D
Zinc coating	275 g/m ²	275 g/m ²	275 g/m ²	275 g/m ²
Min steel thickness ²⁾	0.50 mm	0.50 mm	0.50 mm	0.50 mm
Steel width ²⁾	1000 - 1500 mm	1000 - 1420 mm	1000 - 1500 mm	1000 - 1500 mm

¹⁾ 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.

²⁾ 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.

						
Winter White RR20 / SS0005	Snow White RR19 / SS0001	Concrete Grey RR292 / SS----	Pebble Grey RR21 / SS0011	Quarry Grey RR287 / SS0244	Stone Grey RR22 / SS0554	Anthracite Grey RR2H8 / SS0087
Regular Matt Satin (trial deliveries)	Matt	Regular Satin	Regular Matt Satin (trial deliveries)	Regular Matt Satin	Regular Matt Satin	Matt
						
Mountain Grey RR23 / SS0036	Ridge Grey RR2F7 / SS0035	Slate Grey RR2H3 / SS0534	Nordic Night Black RR33 / SS0015	Walnut Brown RR32 / SS0387	Chestnut Brown RR887 / SS0435	Almond Brown RR30 / SS0187
Regular Matt Satin	Regular Satin	Regular Matt Satin	Regular Matt Satin	Regular Matt Satin	Regular Matt Satin	Regular Satin
						
Terra Brown RR31 / SS0433	Cottage Red RR29 / SS0758	Tile Red RR750 / SS0760	Brick Red RR7F2 / SS0742	Wine Red RR798 / SS5781	Harvest Yellow RR24 / SS0189	Silver Fir Green RR5J3 / SS0975
Regular Satin	Regular Matt Satin	Regular Matt Satin	Regular Satin	Regular Matt	Regular Satin	Matt
						
Leaf Green RR594 / SS0874	Pine Green RR11 / SS0830	Green RR37 / SS0925	Lake Blue RR35 / SS0558	Metallic Silver RR40 / SS0045	Metallic Dark Silver RR41 / SS0044	Metallic Titanium RR45 / SS----
Matt	Regular Matt Satin	Regular Satin	Regular Satin	Regular	Regular Matt*	Regular (trial deliveries)
						
Metallic Gold RR42 / SS----	Metallic Copper RR979 / SS0778					
Regular (trial deliveries)	Regular (trial deliveries)					

Note especially 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. Compared to solid colors, larger measured color variation between production batches is typical for metallic colors, even if color is visually stable.

* Metallic Dark Silver RR41 / SS0044 matt belongs to GreenCoat Pural BT, matt -group and can be used only in roofing products.

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 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.

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 Pural BT 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