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**SSAB**

588en-INT-Innovative roofs and façades with GreenCoat\_V8.2\_2022.  
Confetti, Österbergs.

**GREENCOAT<sup>®</sup>**  
COLORFUL STEEL



*Innovative roofs and façades begin  
with Swedish rapeseed oil.*

*This is why!*



## *This is GreenCoat®*

GreenCoat® is the brand for innovative, sustainable color coated steel solutions – for roofs, façades and rainwater systems.

GreenCoat® products are specifically developed to provide superior aesthetics and long-lasting performance. They give builders and architects new creative and innovative building possibilities while using the most sustainable color coated steel products on the market.

Take a look at how GreenCoat® came to be, and find out why creating innovative roofs and façades begins with Swedish rapeseed oil.

## *Nordic quality steel and bio-based coatings*

There are many things that set GreenCoat® apart from other building materials. One of the most important is sustainability.

Most GreenCoat® products feature a bio-based coating, which uses a substantial portion of Swedish rapeseed oil instead of traditional fossil fuel oils.

This unique, patented solution from SSAB reduces the environmental footprint significantly – and it makes the GreenCoat® color coated steel product portfolio the greenest offer for roofs, façades and rainwater systems on the market.



*Sustainable building for generations to come.  
GreenCoat® products offer a substantial portion  
of Swedish rapeseed oil in the coating.*



## *The GreenCoat® color coated steel story*

SSAB has been manufacturing color coated steels for the building industry for more than 50 years.

What started as an idea in 2002 has resulted in major environmentally positive changes to the building industry.

Back in 2002, the greenest step that the industry had taken was to begin removing chromate from paint systems for color coated steel products, which is now standard. For the global steel company SSAB, this was not enough. SSAB researchers and engineers believed that future market demands would place even more focus on the environment.

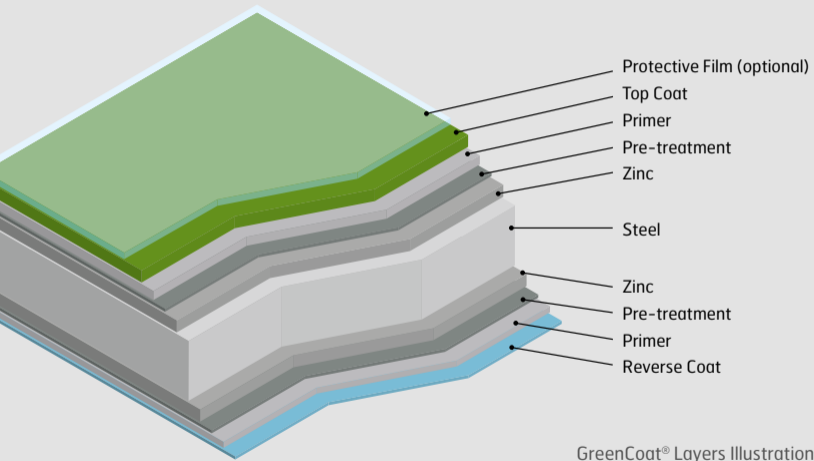
## *The GreenCoat® color coated steel story*

Therefore, the idea was to create a better color coating made from natural sources. One that provides real environmental benefits, and even better performance.

GreenCoat® color coated steels with a sustainable coating became a reality after:

- Over 10 years of development and outdoor testing in harsh climates
- 6 peer reviewed scientific papers
- 1 PhD thesis
- Over 10 conference presentations
- 1 worldwide patent





GreenCoat® Layers Illustration

## Why Steel?

Steel in buildings is nothing new. GreenCoat® steel products are easy to form, less prone to buckling and experiencing other undesired deformations, and will keep their uniform look for years to come, ensuring a longer product life.

When it comes to sustainability, steel is one of the few materials that offers a 100 percent closed recycling loop – without the creation of hazardous waste. Steel is also easy to repurpose and reuse, and emits less CO<sub>2</sub> during its production than other common building materials, such as aluminum.

Steel is a preferred metal for buildings. Many governments prohibit the use of non-ferrous metals like zinc and copper in buildings due to the risk of soil contamination when these metals are washed into the ground by rain.

## *SSAB steel production will soon emit water, not CO<sub>2</sub>* *Fossil-free steel with HYBRIT technology*

In line with Sweden's goal to become a carbon neutral country by 2045, SSAB is also committed to the sustainable production of steel. SSAB is a member of the joint venture HYBRIT project, which aims to revolutionize the steel industry **with fossil-free steel by 2026**.

In 2016, SSAB, LKAB and Vattenfall joined forces to create HYBRIT. This project aims to replace coking coal, traditionally needed for ore-based steel making, with hydrogen made from renewable energy. The result will be unique: the world's first fossil-free steel making technology, with virtually no carbon footprint. As a result, the by-product from the steel making process would be **water, not carbon dioxide**.

*The HYBRIT pilot plant was inaugurated in August 2020 and is clad with GreenCoat® color coated steel in the façade.*



The image features the number '500' in a large, bold, sans-serif font. The digits have a metallic, brushed steel texture and are set against a solid, vibrant green background. The number '5' is on the left, followed by two '0's. The lighting on the metallic surface creates highlights and shadows, giving it a three-dimensional appearance.

*GreenCoat® guarantee  
- Buildings built to last*

GreenCoat® color coated steels offer not only bio-based coatings and soon fossil-free steel, but also:

- an up to 50-year technical guarantee on the steel
- an up to 25-years on the aesthetic appearance of the coating

GreenCoat® products are fire-rated according to EN 13 501-1.

They comply with current REACH regulations and are fully chromate-free.



## *GreenCoat® reaches highest corrosion and UV classes*

Long product life plays an important role when specifying building materials. The new UV (R<sub>UV</sub>5) and RC corrosion (RC5+) classes from the new standard EN10169:2022 ensure that building products have an extremely long product life, which has already been confirmed by SSAB's GreenCoat® guarantees.

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



<b>Frost White</b> RR106 / SS0009	<b>Nordic Night Black</b> RR33 / SS0015
<b>Nordic White</b> RR1H3 / SS0020	<b>Walnut Brown</b> RR32 / SS0387
<b>Winter White</b> RR20 / SS0005	<b>Chestnut Brown</b> RR887 / SS0435
<b>Snow White</b> RR19 / SS0001	<b>Hazelnut Brown</b> RR8H2 / SS0426
<b>Limestone Grey</b> RR268 / SS0022	<b>Acorn Brown</b> RR827 / SS0434
<b>Pebble Grey</b> RR21 / SS0011	<b>Cottage Red</b> RR29 / SS0758
<b>Stone Grey</b> RR22 / SS0554	<b>Brick Red</b> RR7F2 / SS0742
<b>Rock Grey</b> RR237 / SS0061	<b>Red Clay</b> RR7G3 / SS0762
<b>Anthracite Grey</b> RR2H8 / SS0087	<b>Harvest Yellow</b> RR24 / SS0189
<b>Mountain Grey</b> RR23 / SS0036	<b>Silver Fir Green</b> RR5J3 / SS0975
<b>Slate Grey</b> RR2H3 / SS0534	<b>Leaf Green</b> RR594 / SS0874
<b>Metallic Silver</b> RR40 / SS0045	<b>Pine Green</b> RR11 / SS0830
<b>Metallic Dark Silver</b> RR41 / SS0044	<b>Lake Blue</b> RR35 / SS0558
<b>Metallic Titanium</b> RR45	<b>Ocean Blue</b> RR4F8 / SS0510

## *A wide range of colors for GreenCoat® products*

Vibrant and made to last – GreenCoat® products are available in more than 400 colors. The previous page shows our top 28 colors, curated by architects, builders and partners. Each has been carefully selected based on modern building and design trends.

We recommend that you order your GreenCoat® sample for correct color reproduction at: [samples.greencoat@ssab.com](mailto:samples.greencoat@ssab.com).

Please contact us if you have specific color requests.



Produkten bedömd i  
SundaHus Miljödata



**BYGGVARUBEDÖMNINGEN™**

## *Environmental certifications and eco-labels*

SSAB actively tracks and anticipates future changes in environmental, safety and chemical legislation and complies with valid chemical regulations. GreenCoat® color coated steel products are completely free of chromates and in compliance with the following regulations:

- REACH regulations
- CLP
- SundaHus
- BASTA
- Byggvarubedömningen (Building Material Assessment, BVB)
- Swedish Building Product Declarations (Föreningen för Byggvarudeklarationer)

## *GreenCoat® Environmental Product Declaration (EPD)*

Today, a product's lifecycle is more and more important. As a result, documents need to address the lifecycle phases, product contents as well as the production and how to best recycle or re-use materials.

The GreenCoat® EPD is available to give you details about how we produce GreenCoat® color coated steel and care for the product lifecycle.





*GreenCoat RWS – “For highly durable and sustainable rainwater systems”*

Besides GreenCoat® color coated steels being widely used in roofs and façades, they are also available in rainwater systems.

SSAB offers a wide range of GreenCoat RWS products for rainwater systems that can handle the strongest storms with the least maintenance – all while still looking amazing. And GreenCoat RWS come in a wide selection of colors and appearances, and can easily be matched with your GreenCoat® roof to ensure a consistent look across the building.

## *GreenCoat® in award-winning architecture*

### **HOUSE IN THE MOUNTAINS, POLAND**

**Architect:** Gosia Łapaj and Jakub Kowalczyk,  
Kropka Studio.

**Product:** GreenCoat Crown BT

**Color:** Slate Grey, RR2H3/SS0534

Kropka Studio created this elegant barn-style home with a view for a family of five. GreenCoat® color coated steel is used in the distinct standing seam system for both the roof and façade. The sustainability of GreenCoat® played an important role in their choice.

House in the Mountains is currently awarded and nominated for:

2021 Finalist World Architecture Festival (WAF) Award





## *GreenCoat® in award-winning architecture*

### **FISKSÄTRA FOLKETS HUS, SWEDEN**

**Architect:** Thomas Sandell,  
sandellsandberg arkitekter

**Product:** GreenCoat Pro BT

**Color:** Silver Fir Green, RR 5J3 / SS0975

Designed by Swedish starchitect, Thomas Sandell, Fisksätra Folkets Hus serves as a community and recreation center for its residents. Thomas Sandell selected GreenCoat® to create a distinct exterior appearance using sinusoidal profiles, its sustainability and durability.

**Fisksätra Folkets Hus is currently awarded and nominated for:**

2021 Finalist World Architecture Festival (WAF) Award

2021 Longlist Dezeen Awards

2021 Finalist Plåtpriset

2020 Winner Swedish Design Awards



## *GreenCoat® in award-winning architecture*

### **LOFTHOME, THE NETHERLANDS**

**Architect:** BKVV Architecten

**Product:** GreenCoat® color coated steel

**Color:** Metallic Dark Silver RR41 / SS0044

The Lofthome in Hengelo is a 240 sqm Net Zero Energy prefabricated house. It offers a design concept focusing on simplicity and functionality. It is based on a steel construction with large glass sections and innovative façade and roof panels in a soft, sinusoidal shape made from GreenCoat®.

**Lofthome is currently awarded and nominated for:**

2020 Winner of the most Sustainable House in the Netherlands

**Other acknowledgements:**

Featured on Dutch TV program BinnensteBuiten







## *GreenCoat® reference building*

### **GUT DAMP, GERMANY**

**Architect:** Frank Pawlik Architekten, Hamburg

**Product:** GreenCoat Mica BT

**Color:** Anthracite Grey RR2H8 / SS0087

This rare barn from the 17th century was transformed into 14 beautiful loft style holiday apartments. Frank Pawlik Architekten managed to modernize the building with great care and respect for its history by preserving, reusing and combining timber, brick, straw and color coated steel. For both the roof and façade, GreenCoat® color coated steel in Anthracite Grey was chosen to blend in perfectly with the surrounding nature.

## *GreenCoat® reference building*

### **THE EAST QUAY ARTS CENTRE, UNITED KINGDOM**

**Architect:** Ellis Williams Architects and Invisible Studio

**Product:** GreenCoat PLX color coated steel

**Color:** Metallic Dark Silver, Metallic Sterling, Snow White and Brick Red

Ellis Williams Architects and Invisible Studio realized a new cultural anchor for the town of Watchet, Somerset. Five expressive building pods were created.

Due to its wide application range, GreenCoat® color coated steel was used in all buildings in various forms – in standing seam systems, sinusoidal profiles, shingles, cappings and more. The BBC, The Guardian, Wallpaper, Dezeen, ICON, Architecture Today, and Architects Journal are just a selection of media outlets reporting about this extraordinary concept.





## *GreenCoat® in award-winning architecture*

### **AMBIENTE OFFICE, DENMARK**

**Architect:** Ambiente invited ARDESS Architects to co-design

**Product:** GreenCoat Pural BT

**Color:** Nordic Night Black RR33 / SS0015

Ambiente is a 11 500 m<sup>2</sup> unique office and production building offering both minimalistic yet functional space. The stylish façade is clad in standing seams systems made from GreenCoat® color coated steel.

**Ambiente is currently awarded and nominated for:**

2020 NOHRCON Award for Best Office Building of the Year

## *GreenCoat® reference building*

### **RÖRDROMMEN, SWEDEN**

**Architect:** Sweco Architects

**Product:** GreenCoat® color coated steel

**Color:** Anthracite Grey RR2H8 / SS0087

When Sweco Architects created the Rördrommen neighborhood, they chose to re-interpret a traditional construction to fit in with the sense of a city meeting nature.

Several blocks of different colored terraced houses are held together by a uniform sustainable GreenCoat® steel roof. The rounded roofs with standing seam systems remind of agricultural buildings, and free up space on the attic to offer living space flexibility.





## *GreenCoat® reference building*

### **EVENTES BUSINESS GARDEN, FINLAND**

**Architect:** Arkkitehtitoimisto HKP

**Product:** GreenCoat® color coated steel

**Color:** A wide range of GreenCoat® colors.

Finnish architecture firm, Arkkitehtitoimisto HKP, was asked to create six floors of flexible and configurable office space in Espoo that serves as headquarters for Outotec. The many colorful steel surfaces on the façade makes the building stand out. GreenCoat® color coated steel was chosen for the panels, profiles and lamellas.

## *GreenCoat® in award-winning architecture*

### **SKÝLI, SWEDEN**

**Architect:** UTOPIA Arkitekter

**Product:** GreenCoat Pural BT

**Color:** Skýli Blue

Skýli is a proposed mountain trekking cabin with a strong sustainable angle. It will feature a brilliant blue roof, which will be made from sustainable GreenCoat® color coated steel. The chosen color and distinct roof represents the Nordic light and ensures that Skýli is visible in the Nordic landscape.

**Skýli is currently awarded and nominated for:**

2017 Shortlisted World Architecture Festival "Leisure-led Development - Future Projects"





## *GreenCoat® in award-winning architecture*

### **TIN HOUSE, LONDON**

**Architect:** Henning Stummel,  
Henning Stummel Architects Ltd.

**Product:** GreenCoat PLX Pro BT

**Color:** Brick Red RR7F2/SS0742

Award-winning architect Henning Stummel's "Tin House" utilizes GreenCoat® color coated steel for the entire façade and roof of the building. It was chosen for its unique sustainable and aesthetic benefits. The final result has gained international attention.

**The Tin House is currently awarded and nominated for:**

2017 House of the Year, AJ Architecture Awards

2017 Winner Iconic Awards

2017 Shortlisted BD's Architect of the Year Awards, UK – Individual House

2016 Winner RIBA London Award

2016 Shortlisted World Building of the Year, WAF

2016 Shortlisted RIBA National House of the Year

2016 Shortlisted Stephen Lawrence Prize

RIBA 





## *The way forward*

GreenCoat® color coated steel products inspire creativity and quality in architecture, while limiting a building's impact on the environment. They are easy to work with, provide long lasting surfaces for any weather and are available in a wide range of colors.

Get to know GreenCoat® even better by visiting:

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

Or get in touch with SSAB at:

[greencoat@ssab.com](mailto:greencoat@ssab.com)

Order GreenCoat® color samples at:

[samples.greencoat@ssab.com](mailto:samples.greencoat@ssab.com)

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GreenCoat® is available in

**bimobject**®



**SSAB** has manufactured products for the building industry for more than 50 years and is the pioneer and innovator of sustainable color coated steel products offering Swedish rapeseed oil in the coating.

SSAB is a Nordic and US-based steel company offering value added products and services developed in close cooperation with its customers to create a stronger, lighter and more sustainable world. SSAB has production facilities in Sweden, Finland and the US and employees in over 50 countries.

#### **SSAB**

SE-78184 Borlänge  
Sweden  
Phone: +46 243 700 00  
Fax: +46 243 720 00  
greencoat@ssab.com

#### **SSAB Europe Oy**

Harvialantie 420  
FIN-13300 Hämeenlinna  
Finland  
Phone: +358 20 59 11  
Fax: +358 20 59 25080  
greencoat@ssab.com

[ssab.com/GreenCoat](https://ssab.com/GreenCoat)