

## APPLICATIONS

GreenCoat is suitable for external roofs and roof fittings. In addition to being suitable for normal environments, GreenCoat can also be used in industrial and marine environments.

## PRODUCT DESCRIPTION

GreenCoat has a coating with a total thickness of 36 µm. The thickness of the paint is optimized for wear resistance, weathering resistance and consumption of resources. It has greater durability than standard polyester coatings when exposed to people walking on the roof and other stresses occurring on roofs. The coating has excellent gloss retention and color fastness, and also provides good protection against corrosion.

## ENVIRONMENTAL FEATURES

GreenCoat has a top coat, based on a patented concept where a substantial part of the conventional solvents are replaced by a biorenewable reactive solvent. This type of reactive diluents, e.g. rapeseed methyl ester (RME), is made from natural oils. The elegance of using a reactive solvent like RME is that it serves as a solvent during formulating, shipping and application of the paint until it enters the curing oven. Once there, the RME reacts with the polyester resin instead of being evaporated as conventional solvents do. The RME thus becomes a part of the final paint film.

- The only fully chromate-free product designed for Nordic conditions.
- Manufactured in Sweden.
- The paint gloss and colour have a prolonged lifetime.
- GreenCoat meets the requirements for skin and band coverage also fittings in connection with the coverage.
- Reduces consumption of petroleum based products.
- The RME solvent is a biorenewable substance.

## ORGANIC COATING

GreenCoat	Type	Thickness
Front side primer	Polyester	10 µm
Front side top coat	Polyester	26 µm
Reverse side primer	Polyester	5 µm
Reverse side top coat	Polyester	5 µm

## PROPERTIES

	Test method	Data
Paint thickness, nominal	ISO 2808	36 µm
Gloss	EN 13523-2	40 och 20
Minimum inner bending radius	EN 13523-7	2 T
Adhesion	EN 13523-6	Satisfactory
Scratch resistance	EN 13523-12	Min. 35 N
Max. service temperature		100 °C

## MATERIAL

GreenCoat is supplied on hot-dip galvanized sheet to EN 10346, with zinc weight class Z 275 or Z 350.

## COLOUR RANGE

The standard colours are shown in a separate colour chart. The reverse side of the sheet is coated as standard with grey two layer paint, and marked with particulars of product name and production date.

## INSPECTION AND MAINTENANCE

Regular maintenance extends the useful life of the paint coat and thus also the intervals between repainting, see the brochure entitled "Inspection and maintenance of prepainted steel sheet", E 838. Take care to avoid damage to the coating during production and installation. To repair scratches and handling damage, use touch-up crayon or equivalent product. Several systems of repainting paints are available on the market.

## INTERVALS BETWEEN REPAINTING

A suitable time for repainting can be determined by regular inspection of the paint coat.

An assessment of when it is appropriate to repaint the sheet should be made by an expert. The normal time before repainting GreenCoat is considered to be at least 20 years, provided that regular maintenance is done.

## RESISTANCE TO CORROSION

The corrosion resistance of GreenCoat is continuously tested by exposure of test pieces outdoors in corrosive marine and industrial environments. GreenCoat belongs to corrosion protection category RC4 as per ENV 10169:2010. For indoor use, GreenCoat conforms to moisture category CPI5 and environmental category A4 as per EN 10169:2010.

The material should not be stored or installed close to damp and corrosive materials or in areas in which the sheet is subjected to strong cleaning agents.

## RESISTANCE TO UV-LIGHT

GreenCoat can be used in UV resistance category not exceeding Ruv3 as per ENV 10169:2010. This means that GreenCoat can be used north of latitude 37 °N (southern Europe). Between latitude 37 ° N and 45 ° N the altitude must not exceed 900 m.

## RESISTANCE TO CHEMICALS

The coating generally has good resistance to chemicals. However, there are exceptions, e.g. certain organic solvents such as aromatics, ketones and chlorinated hydrocarbons.

## FIRE CLASSIFICATION

GreenCoat fulfills the following requirements:

Classification	Standard
A2 – s2, d0	EN 13501-1
Class B2	Din 4102 Teil 1
Class 1	BS476 Part 7
Flameproof surface class 1	SS 024823

## INDUSTRIAL SAFETY

Special measures should be taken to prevent personnel being exposed to the air pollutants formed during grinding, welding and cutting of the sheet material. For further information, refer to your national industrial safety regulations concerning paints and thermosetting plastics. GreenCoat has non-slip properties that are equivalent to those of other roofing sheet materials.