

# Prelaq Matt Polyester

## Prepainted sheet steel for buildings

### Applications

Prelaq Matt Polyester prepainted sheet steel is suitable for roofing tiles and profiled sheet for roofing, and also for additional fittings.

### Product description

Prelaq Matt Polyester has good colour fastness and good resistance to corrosion. The sheet has a textured surface that accounts for the matt appearance. The reverse side of the sheet is painted as standard with a grey epoxy-type paint. The reverse side of the sheet is marked with the product name and production date.

### Substrate material

Prelaq Matt Polyester is supplied on hot-dip galvanized sheet steel to EN 10326, with zinc weight class Z 275.

### Colours range

The standard colours are shown in a separate colour chart.

### 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, or product leaflet SE 826. Take care to avoid damage to the coating during production and installation. To repair scratches and handling damage, clean and touch up with Abratex Lackstift (touch-up crayon) or equivalent product. Several makes and systems of repainting paints are available on the market.

### Intervals between repainting

The aesthetic useful life is affected by many factors. It depends on whether the paint colour is light or dark, whether the material is used on a wall or roof, the roof pitch, the orientation of the surface (e.g. north or south) and the environment. Local environmental impact by precipitation or emissions also affects the aesthetic useful life.

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 Prelaq Matt Polyester is considered to be at least 15 years, provided that regular maintenance is done.

### Paint coat

	Type	Thickness
Primer on front side	Special primer	7 µm
Top coat on front side	Polyester	23 µm
Reverse side paint	Epoxy based	10 µm

### Properties

	Type	Thickness
Paint thickness Nom	ISO 2808	30 µm
Paint thickness Min	ISO 2808	27 µm
Gloss	EN 13523-2	5
Minimum bending radius	EN 13523-7	2 T <sup>1)</sup> (dark colours) 4 T <sup>1)</sup> (light colours)
Adhesion	EN 13523-6	Satisfactory
Maximum service temperature		80° C

1) T is the sheet thickness.

### Resistance to corrosion

The corrosion resistance of Prelaq Matt Polyester is continuously tested by exposure of test pieces outdoors in corrosive marine and industrial environments.

Prelaq Matt Polyester belongs to corrosion protection category RC3 as per EN 10169-2. For indoor use, Prelaq Matt Polyester conforms to moisture category CPI5 and environmental category A3 as per EN 10169-3:2003.

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 or in premises in which animals are kept.

### Resistans to UV-light

Prelaq Matt Polyester can be used in UV resistance category not exceeding R<sub>uv</sub> 3 as per EN 10169-2. This means that Prelaq Matt Polyester can be used north of latitude 37°N (southern Europe). Between latitude 37° N (southern Europe) and 45° N the altitude must not exceed 900 meters.

## Resistance to chemicals

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

## Fire classification

Gross calorific value established to 0,90 MJ/m<sup>2</sup> according to EN ISO 1716 for Prelaq Matt Polyester. According to EN 14782 "Self-supporting metal sheet for roofing, external cladding and internal lining" part 5.1.1, Prelaq Matt Polyester is "deemed to satisfy the requirements for external fire performance".

## 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.

Prelaq Matt Polyester has non-slip properties that are equivalent to those of other roofing sheet materials.

## Working

If the material is used for producing pressed or bent parts with tight radii, check that no cracking has occurred in the paint coat. Working should be avoided at sheet temperatures below +15°C. Cracking of the paint coat may occur at lower temperatures.

## Cut edges

Edge corrosion may occur if the sheet is used in corrosive environments and if the cut edges of the sheet are exposed. Protective painting can be applied to avoid edge corrosion. The smallest possible area should be painted in order to avoid future colour mismatch.

## Product limitations

The appearance of Matt Polyester is directionally dependent. The marking arrows on the reverse side of the sheet should therefore always point in the same direction as those on sheets laid on the same roof surface. Small variations in appearance may occur. Sheets on a given surface should therefore be taken from the same delivery.

The information in this document is valid at the date of publication and is intended to serve as general guidance for the use of the product. The latest version of this document is published on our web site. We reserve the right to introduce changes resulting from our continual product development work. The information and data given must not be regarded as binding, unless specially confirmed in writing.

If the sheet material is subjected to shaking, such as when it has been transported on a vehicle, damage may occur on the paint coat if the sheets are allowed to slide against one another.

Use in a distinct marine atmosphere area, such as along a sea coast, should be avoided if the building is located less than around 1 km from an open coast, with breakers forming on the sea surface. Prelaq Matt Polyester should not be used on roofs subjected to mechanical wear such as intensive use by people walking on the roof, snow clearance or other mechanical wear.

The texture of the paint coat may sometimes be flattened during storage and transport, which may be perceived as differences in gloss when the sheets are installed in place. However, the paint coat will revert to its original appearance when the sheet has subsequently been warmed up during normal use on a roof.

## Environment

Environmental work has long been an established part of the operations at SSAB Tunnplåt. Developments are reported in an annual environmental report to the authorities. SSAB Tunnplåt devotes active work to the development of its processes, and develops products that are beneficial from the environmental aspect and from a life cycle perspective. SSAB Tunnplåt has gained environmental certification in accordance with ISO 14001.

Steel is 100% recyclable. The environmental properties of Prelaq are given in a special environmental specification that can be ordered from SSAB Tunnplåt.

## Miscellaneous

Damage to the coating should be avoided during production and installation. Scratches and handling damage should receive attention by cleaning and touch-up painting.

Storage of the material outdoors should be avoided. If this is unavoidable, the material should be satisfactorily covered and should be stored so that good air circulation will be obtained, in order to avoid moisture.

For particulars of tolerances and properties in general, refer to European Standard EN 10169-1.

## Technical service and information

The Organic Coated Products Marketing Department will be pleased to provide additional information on this product and other prepainted products from SSAB Tunnplåt.



### SSAB Tunnplåt AB

SE-781 84 Borlänge  
Sweden  
Tel: 0243-700 00  
Fax: 0243-720 00  
office@ssabtunnplat.com  
ssabtunnplat.com  
ssab.com

### Denmark

SSAB Svensk Stål A/S  
Tel +45 43 20 5000  
ssab.dk

### Finland

OY SSAB Svenskt Stål AB  
Tel +358 9 686 6030  
ssab.fi

### France

SSAB Swedish Steel SA  
Tel +33 1 55 61 91 00  
ssab.fr

### Great Britain

SSAB Swedish Steel Ltd.  
Tel +44 1384 746 60  
dobel.co.uk

### Italy

SSAB Swedish S.p.A  
Tel +39 030 90 58 811  
ssab.it

### The Netherlands

SSAB Prelaq BV  
Tel +31 24 679 07 00  
ssab.prelaq.nl

### Norway

SSAB Svensk Stål A/S  
Tel +47 23 11 85 80  
ssab.no

### Poland

SSAB Swedish Steel  
Sp. z o.o.  
Tel +48 22 353 15 00  
prelaq.pl