SSAB SWEDISH STEEL

Dobel

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Dobel 200 XT Leathergrain Embossed Plastisol

Applications

Prepainted sheet steel with Dobel 200xT paint coat is particularly well suited for profiled sheet for roofing, wall cladding and associated fittings.

In addition to being suitable for normal environments, Dobel 200xT can also be used in industrial and marine environments. The product can also be used wherever mechanical durability is required and/or if the material is to be worked by advanced pressing or handicraft processes.

Product description

Dobel 200xT is a thick-layer coating. The coating is particularly insensitive to people walking on the roof and other stresses occurring on exposed roofs. The coating provides excellent protection against corrosion. This coating is always delivered with a textured surface. The reverse side of the sheet is painted as standard with a thin coat of epoxy-type paint. The reverse side of the sheet is marked with the product name and production date.

Substrate material

Dobel 200xT is available on hot-dip galvanised sheet as per EN 10326 or EN 10327, with zinc weight class Z 275 or Z 350.

Colours

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. Repainting should be carried out before the original paint coat has lost is adhesion to the sheet material. The original paint coat will then not have to be removed.

An assessment of when it is appropriate to repaint the sheet should be made by an expert. The normal time before repainting Dobel 200xT is considered to be at least 10 - 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	Plastisol	195 µm
Reverse side paint	Epoxy based	10 µm

Properties

	Test method	Data
Paint thickness	ISO 2808	200 µm
Gloss	EN 13523-2	40 (not textured surface)
Minimum inner bending radius	EN 13523-7	0 T[1)]
Adhesion	EN 13523-6	Satisfactory
Impact strength	ISO 6272	18 J (160 in 1b)
Maximum surface temperature		60 ° C

[1)] T is the sheet thickness.

Resistance to corrosion

The corrosion resistance of Dobel 200xT is continuously tested by exposure of test pieces outdoors in corrosive marine and industrial environments.

Dobel 200xT belongs to corrosion protection category C4 as per ENV 10169-2. This means that the sheet can be used in all environments, except in extremely corrosive regions with high contents of air pollutants and in coastal areas in air with high salt contents.

For indoor use, Dobel 200xT conforms to moisture category CPI5 and environmental category A4 as per EN 10169-3:2004.

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.

Resistance to UV light

Dobel 200xT can be used in UV resistance category not exceeding $R_{uv}2$ as per ENV 10169-2. This means that Dobel 200xT can be used north of latitude 45°N and altitudes of up to 900 m above sea level.

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

Dobel 200xT conforms to the provisions for class 1 flame-resistant surface coating as per Swedish Standard SS 02 48 23, class 1 surface as per BS 476 Part 7 and Baustoff Klasse B2 as per DIN 4102 Teil 1. The gross calorific value is 6.4 MJ/m^2 measured in accordance with ISO 1716.

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.

Dobel 200xT 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. See the minimum bending radius in the table of properties. 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.

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 Dobel 200xT are given in a special environmental specification that can be ordered from SSAB Tunnplåt.

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.

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.

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.

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