

Prelaq Nova DS – Pre-painted Sheet Steel for Roof Drainage Products

Application

Prelaq Nova DS with double-sided paint coat is intended specifically for products for roof drainage, such as gutters, downpipes and fittings, in addition to being suitable for normal environments, Prelaq Nova DS can also be used in industrial and marine environments.

Product description

Prelaq Nova DS is a coating with a total thickness of 35 µm on each side. The top coat contains polymer grains that make the surface scratch resistant. The thickness of the paint has been optimized for wear resistance, weather resistance and consumption of resources. The coating has excellent gloss retention and colour fastness, and also provides good protection against corrosion.

Paint Coat

	Type	Thickness
Top coat and primer	High-build polyester	35 µm

Properties

	Method of testing	Thickness
Paint thickness, nominal	ISO 2808	35 µm
Gloss	EN 13523-2	40
Minimum bending radius	EN 13523-7	1 T ¹⁾ (dark colours) 2 T ¹⁾ (light colours)
Adhesion	ISO 1520	Satisfactory
Pencil hardness	EN 13523-4	HB-F
Maximum service temperature		100 °C

¹⁾ T is the steel sheet thickness

Inspection and maintenance

Gutters and pipes should be kept clear of dirt and other foreign matter that prevents free drainage of water. This can be ensured by regular inspection and cleaning.

Regular maintenance extends the useful life of the paint coat and thus also the time before repainting becomes necessary. See the brochure entitled "Inspection and maintenance of pre-painted steel sheet" (GB 838). Care should be taken to avoid damage to the coating during manufacture and installation. Scratches and scraping damage should be cleaned and restored by touch-up painting. Several makes and systems of paint are available for touching up and repainting.

Time before repainting is needed

Regular inspection of the paint coat will reveal when repainting is necessary. A suitable time for repainting should be assessed by an expert. The normal time for repainting Prelaq Nova DS is considered to be at least 20 years, provided that the sheet receives regular maintenance.

Resistance to corrosion

The corrosion resistance of Prelaq Nova DS is continuously tested by exposure outdoors in corrosive marine and industrial environments. Prelaq Nova DS belongs to corrosion protection category RC4 in accordance with ENV 10169-2. This sheet steel can thus be used in all environments, except in extremely corrosive areas with high contents of air pollutants and in coastal regions in which the air has a high salt content.

Resistance to chemicals

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

Fire classification

Prelaq Nova DS conforms to the provision for flame-resistant Class 1 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 calorimetric calorific value is <math><2.0 \text{ MJ/m}^2</math> measured in accordance with ISO 1716.

Industrial safety

If the sheet steel material is ground, welded or cut so that air pollutants are emitted, special measures must be taken to prevent persons being exposed to the pollutants. For other particulars, refer to your national industrial safety regulations related to paints and thermosetting plastics.

Design of roof drainage systems

Gutters should be designed and installed in accordance with common practice in the building industry, with a minimum drop of 5 mm/m (1:20).

Working

If the material is used for pressed components or bent parts with tight radii, check that no cracking occurs in the paint coat. See the minimum bending radius in the table of properties. Working should be avoided if the sheet temperature is lower than +15°C. Cracks may occur in the paint coat at lower temperatures.

Cut edges

If the sheet steel is used in environments that are difficult from the corrosion aspect and if cut edges are exposed, edge corrosion may occur. The sheet edges should then be painted to avoid edge corrosion.

Environment

Environmental work has long been an established part of the operations at SSAB Tunnsplåt. SSAB Tunnsplåt is certified in accordance with ISO 14001. Developments are reported annually in an environmental report to the authorities. SSAB Tunnsplåt pursues active work on developing its processes and on manufacturing products that are beneficial in the environmental respect and from the life cycle perspective.

Steel is 100% recyclable. The environmental properties of Prelaq Nova DS are presented in a special environmental specification. This can be ordered from SSAB Tunnsplåt.

Technical service and information

The Pre-painted Product Marketing Department will be pleased to supply additional information on this product and other pre-painted products from SSAB Tunnsplåt.

Miscellaneous

Storage of the material outdoors should be avoided. However, 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 problems.

For particulars of tolerances and other properties, refer to European Standard EN 10 169-1 and -2.

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SSAB Tunnsplåt AB

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