

Technical Data Sheet

Penguard Pro GF

Product description

This is a two component amine cured, glass flake reinforced, alkali resistant, high solids, high build product. Specially designed for use in industrial environments. Can be used as primer, mid coat, finish coat or as single coat. Suitable for properly prepared carbon steel, concrete and thermally sprayed zinc substrates.

Typical use

Date of issue: 28 August 2025

This Technical Data Sheet supersedes those previously issued. The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Application and Installation Guide (AG) for this product. For your nearest local Jotun office,

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Suitable for structural steel and piping to be exposed to weather. Recommended for offshore environments, including splash zones and mining equipment. Specially designed as a universal coating where a high level of protection is required. The product provides great flexibility in choice of finish. Designed for areas where increased abrasion and impact are expected in landing areas.

Approvals and certificates

Pre-qualified in accordance with Norsok M-501 in selected areas. Additional certificates and approvals may be available on request.

Other variants available

Penguard Pro

Penguard Pro Alu

Refer to separate TDS for each variant.

Colours

selected range of colours

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Product data

Property	Test/Standard
Solids by volume	ISO 3233
Gloss level (GU 60 °)	ISO 2813
Flash point	ISO 3679 Method 1
Density	calculated

Region	Regulation
US	CARB(SCM)2020 / SCAQM
Hong Kong	Air Pollution Control (VOC)
EU	European Paint Directive 2
EU IED	Industrial Emission Directiv
Korea	Korea Clean Air Conservati
China	GB 30981-2020 Limit of ha substances of industrial pr coatings

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The provided data is typical for factory produced product.
Gloss description: According to Jotun Performance Coat

Film thickness per coat

Typical recommended specification range

Dry film thickness	150 - 600	µm
Wet film thickness	200 - 800	µm
Theoretical spreading rate	5 - 1.3	m ² /l

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Surface preparation

Surface preparation summary table

Substrate	Minimum
Carbon steel	St 2 (ISO 8501-1)
Stainless steel	The surface shall be hand abraded with non-metallic or bonded fibre machinable abrasive pads to impart pattern to the surface.

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Aluminium	The surface shall be hand abraded with non-metallic or bonded fibre machine abrasive pads to impart a pattern to the surface.
Galvanised steel	The surface shall be clean and appear with a rough appearance.
Shop primed steel	Dry, clean and intact surface.
Concrete	Minimum 4 weeks curing content maximum 5 % moisture. Prepare the existing concrete by scabbling, needle gun or disc grinding.
Coated surfaces	Clean, dry and undamaged compatible coating.

Optimum performance, including adhesion, corrosion protection achieved with recommended surface preparation.

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Application

Application methods

The product can be applied by

Spray: Use airless spray.

Brush: Recommended for stripe coating specified dry film thickness.

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Product mixing ratio (by volume)

Penguard Pro GF Comp A

Penguard Pro Comp B

Thinner/Cleaning solvent

Thinner:

Jotun Thinner No. 17

Guiding data for airless spray

Nozzle tip (inch/1000): 21-27

Pressure at nozzle (minimum): 200 bar / 2900

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Drying and Curing time

Substrate temperature

Surface (touch) dry

Walk-on-dry

Dry to over coat, minimum

Dried/cured for service

For maximum overcoating intervals, refer to the Application

Drying and curing times are determined under controlled conditions at average of the DFT range for the product.

Care should be taken when over coating at low temperatures to reach full cure and proper mechanical properties.

Surface (touch) dry: The state of drying when slight tackiness.

Walk-on-dry: Minimum time before the coating can tolerate footprints or other physical damage.

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Dry to over coat, minimum: The recommended shortest

Dried/cured for service: Minimum time before the coating environment/medium.

Induction time and Pot life

Paint temperature

Induction time

Pot life

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Heat resistance

Dry, atmospheric

Immersed, sea water

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective temperatures.

Note that the coating will be resistant to various immersion and whether immersion is constant or intermittent. Heat used as part of a system, ensure all coatings in the system

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Product compatibility

Depending on the actual exposure of the coating system combination with this product. Some examples are shown in the following table. For more information, see the application recommendation.

Previous coat:	epoxy, epoxy mastic, zinc epoxy
Subsequent coat:	acrylic, epoxy, polyurethane, polysiloxane

Packaging (typical)

Penguard Pro GF Comp A

Penguard Pro Comp B

The volume stated is for factory made colours. Note that the volume may vary due to local regulations.

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Storage

The product must be stored in accordance with national standards in a well-ventilated space and away from sources of heat and humidity. Handle with care.

Shelf life at 23 °C

Penguard Pro GF Comp A
Penguard Pro Comp B

In some markets commercial shelf life can be dictated by local regulations. After shelf life, thereafter the paint quality is subject to re-inspection.

Environmental Documentation

This product can contribute to Green Building Standard certification. For more information, or contact your local Jotun representative.

Environmental Product Declaration (EPD) is available at [www.jotun.com/epd](#)

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Caution

This product is for professional use only. The applicator must have the capability and equipment to mix/stir and apply the product according to the documentation. Applicators and operators shall use appropriate PPE. This guideline is given based on the current knowledge. Specific site conditions shall be forwarded to the responsible person before the work.

Health and safety

Please observe the precautionary notices displayed on the product label. Do not inhale spray mist. Avoid skin contact. Spillage on clothing should be removed with cleanser, soap and water. Eyes should be well flushed with water.

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Colour variation

When applicable, products primarily meant for use as primers may vary in colour from batch to batch. Such products and epoxy based products are sensitive to sunlight and weathering.

Colour and gloss retention on topcoats/finish coats may vary in different environment such as temperature, UV intensity etc., and for more information contact your local Jotun office for further information.

Disclaimer

The information in this document is given to the best of our knowledge and practical experience. Jotun's products are considered as a guide only and should be used under conditions beyond Jotun's control. Jotun cannot be held responsible for itself. Minor product variations may be implemented in the future. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance and specific application practices.

If there is any inconsistency between different language versions, the English version will prevail.

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