



New Guard Coatings Group

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The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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Jotatemp 250

Product description

This is a two component glass flake reinforced epoxy composite coating. Designed as a heat resistant coating, and it is resistant to low temperatures down to -196°C and high temperatures up to 250°C on carbon steel. Suitable for insulated and non insulated surfaces. Suitable for properly prepared carbon steel, stainless steel, alloyed steel (P91), galvanized steel and aluminium. It can be applied on hot substrates up to 302 °F (150 °C). Please refer to the application guide for more detailed information. This product may be used as a primer, mid coat or finish coat. It will offer proper corrosion protection at ambient conditions during construction and shut-down periods. The product passes the standard tests used for qualifying coatings preventing corrosion under insulation (CUI).

Typical use

Protective:

Designed as corrosion protection for surfaces operating at elevated temperatures where extended protection against corrosion is desired. Particularly suited for use under insulation. Suitable for insulated and non insulated surfaces.

Approvals and certificates

Passing ISO 19277-2018 including CUI-2 Cryo and CUI-3 Cryo multiphase.

Tested in accordance with ISO 12944-6, high expected durability in corrosivity category C5.

Passing vertical pipe test for CUI performance as described in ISO 19277 Part 8.2:2018.

Tested in accordance with ISO 3248:2000 determination of the effect of heat 1000 hours at 250°C on carbon steel.

Tested in accordance with ISO 3248:2000 determination of the effect of heat 1000 hours at 230°C on stainless steel (SS304).

Tested in accordance with ISO 3248:2000 determination of the effect of heat 1000 hours at 230°C on alloyed steel (P91).

Passing ASTM D2485 : 2018 - standard test methods for evaluating coatings for high temperature service from -196°C to 250°C.

Additional certificates and approvals may be available on request.

Colors

white, red, light grey, aluminum

Aluminium colour shall not be overcoated.

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	70 ± 2 %
Gloss level (GU 60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	82 °F (28 °C)
Density	calculated	1.5 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	US EPA Method 24	2.3 lbs/gal

The provided data is typical for factory produced products, subject to slight variation depending on color.
Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	6 mils (140 µm)	8 mils (200 µm)
Wet film thickness	8 mils (200 µm)	12 mils (300 µm)
Theoretical spreading rate	200 ft ² /gal (5 m ² /l)	140 ft ² /gal (3.5 m ² /l)

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 ISO 8501-1 (or SSPC- SP 2) if temperature does not exceed 230 °C (445 °F)	Sa 2½ (ISO 8501-1) or NACE No. 2 / SSPC SP-10
Stainless steel	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Aluminum	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Galvanized steel	The surface shall be clean, dry and appear with a rough and dull profile.	Sweep blast-cleaning using non-metallic abrasive leaving a clean, rough and even pattern.
Shop primed steel	Dry, clean and approved inorganic zinc shopprimer.	Sa 2½ (ISO 8501-1) or NACE No. 2 / SSPC SP-10
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Application

Application methods

The product can be applied by

- Spray: Use airless spray.
- Brush: Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

Product mixing ratio (by volume)

Jotatemp 250 Comp A	5 part(s)
Jotatemp 250 Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner:	Jotun Thinner No. 23
Thinning max:	10 %

Thinning is not normally required. Consult the local representative for advice during application in extreme conditions. Do not thin more than allowed by local environmental legislation.

Note: Korean VOC regulation "Korea Clean Air Conservation Act" and its corresponding thinning limit will prevail over recommended thinning volumes.

Guiding data for airless spray

Nozzle tip (inch/1000):	19-21
Pressure at nozzle (minimum):	150 bar/2100 psi

Drying and Curing time

Substrate temperature	50 °F	59 °F	73 °F	104 °F	212 °F
Surface (touch) dry	12 h	6 h	2.5 h	1.5 h	20 min
Walk-on-dry	24 h	13 h	7 h	2.5 h	20 min
Dried to over coat, minimum	13 h	6 h	2.5 h	1.5 h	0 min
Dried/cured for service	25 d	21 d	18 d	3 d	1 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Due to the fast evaporation above 100°C, instant drying is expected. Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Induction time and Pot life

Paint temperature	73 °F
Induction time	20 min
Pot life	2 h

Reduced at higher temperatures.

Heat resistance

Carbon steel:
Continuous: 250°C
Peak: 300°C

Stainless steel:
Continuous: 230°C

Alloyed steel:
Continuous: 230°C

Galvanized steel:
Continuous: 204°C

Aluminum
Continuous: 204°C

The continuous operational temperature limits are based on the substrate's heat resistant properties.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat: inorganic zinc ethyl silicate, itself
Subsequent coat: glass flake reinforced epoxy composite, silicone acrylic *

* Maximum heat resistance is 446 °F (230 °C)

Packaging (typical)

	Volume (liters)	Size of containers (liters)
Jotatemp 250 Comp A	4.17/15	5/20
Jotatemp 250 Comp B	0.83/3	1/3

The volume stated is for factory made colors. Note that local variants in pack size and filled volumes can vary due to local regulations.

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 73°F (23 °C)

Jotatemp 250 Comp A	24 month(s)
Jotatemp 250 Comp B	24 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Note

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Color variation

When applicable, products primarily meant for use as primers or antifoulings may have slight color variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

Disclaimer

Technical Data Sheet

Jotatemp 250



Jotun Protects Property

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.
