



New Guard Coatings Group

A global reputation to protect.

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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Technical Data

Jotatemp 650



Product description

A high-build, one-component Inert Multipolymeric Matrix coating designed to provide corrosion protection of structures exposed to extreme high and/or extreme low temperatures.

Recommended use

Corrosion protection of insulated and non-insulated carbon steel and stainless steel with dry operating surface temperatures that can range from cryogenic to above 650 °C (intermittent 720 °C) including cyclic services in temperatures between -185 °C and 540 °C. Can be applied on hot substrates (up to 400 °C - ref. Application Guide). Especially suited for preventing corrosion under insulation during construction and shut down/low temperature periods.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	100	150	125
Film thickness, wet (µm)	135	200	165
Theoretical spreading rate (m ² /l)	7,6	5,1	6,1

Physical properties

Colour	Grey, Aluminium effect
Solids (vol %)*	76 ± 2
Flash point	18°C ± 2 (Setaflash)
VOC	3,5 lbs/gal (424 gms/ltr) USA-EPA Method 24 453 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Flat
Water resistance	Good
Solvent resistance	Fair
Chemical resistance	Fair
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

Hong Kong rules:

Category of paints - Other vessel coatings; VOC 424 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.95; Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Bare steel

Cleanliness: Power tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007) and a roughness between 35 - 50 microns. Improved surface treatment (blast cleaning to Sa 2½) will improve the performance.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Application methods

Spray Use airless spray

Brush May be used but care must be taken to achieve the specified dry film thickness.

Application data

Mixing ratio (volume) Single pack.

Thinner/Cleaner Jotun Thinner No. 21/Jotun Thinner No. 7

Guiding data airless spray

Pressure at nozzle 15 MPa (150 kp/cm², 2100 psi)

Nozzle tip 0.38-0.53 mm (0.015-0.021")

Spray angle 40-80°

Filter Check to ensure that filters are clean.

Note Jotun Thinner No. 21 should only be used between 100 °C and 400 °C. For substrate temperatures below 100 °C Jotun Thinner No. 7 may be used. See also Application Guide.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate

Substrate temperature	10°C	15°C	23°C	40°C	100°C
Surface dry	8-10 h	6 h	2 h	2 h	0,5 h
Through dry ²	24 h	24 h	6 h	4 h	1 h
Dry to recoat, minimum ¹	24 h	24 h	6 h	4 h	1 h

1. The surface should be free from chalking and contamination prior to application.
2. Exposure to extreme temperature, below 0 °C and above 400 °C, should be avoided before the coating is through dry.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

Jotatemp 650 2 x 125 µm (Dry Film Thickness)

Optional system:

Jotatemp 650 3 x 125 µm (Dry Film Thickness)

Other systems may be specified, depending on area of use

Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use.

Packing size

5 litre unit.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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