

# Technical Data Sheet



## Jotatemp 650

### Product description

This is a one component inert multipolymeric matrix coating. It is resistant to low temperatures, down to -196 °C and high temperatures, up to 650 °C continuously, 720 °C intermittent. Can be used as primer or finish coat in atmospheric environments. Suitable for properly prepared carbon steel and stainless steel substrates. It can be applied on hot substrates up to 400 °C.

### Typical use

Protective:  
Specially designed for preventing corrosion under insulation (CUI). Recommended at dry operating surface temperatures that can range from cryogenic, i.e. -196 °C, to above 650 °C (intermittent 720 °C). Suitable for insulated and non insulated surfaces.

### Colours

grey, aluminium effect

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	76 ± 2 %
Gloss level (GU 60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	18 °C
Density	calculated	1,92 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested)	424 g/l
VOC-China	GB/T 23985-2009 (ISO 11890-1) (tested)	453 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour.

Gloss description: According to Jotun Performance Coatings' definition.

### Film thickness per coat

#### Typical recommended specification range

Dry film thickness	100 - 150	µm
Wet film thickness	135 - 200	µm
Theoretical spreading rate	7,6 - 5,1	m <sup>2</sup> /l

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## Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Stainless steel	Cleanliness corresponding to St 2 (ISO 8501-1)	Cleanliness and surface profile corresponding to Sa 2½ (ISO 8501-1), Fine G (ISO 8503-2)
Coated surfaces	Fully cured, clean, dry and undamaged compatible coating	Fully cured, clean, dry and undamaged compatible coating

## Application

### Application methods

The product can be applied by

Spray: Use airless spray.

Brush: May be used. Care must be taken to achieve the specified dry film thickness.

### Product mixing

Single pack

### Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 7 / Jotun Thinner No. 21

For application on substrate temperatures below 100 °C use Jotun Thinner No. 7.

For application on substrate temperatures between 100 °C and 150 °C use Jotun Thinner No. 21.

### Guiding data for airless spray

Nozzle tip (inch/1000): 15-21

Pressure at nozzle (minimum): 150 bar/2100 psi

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## Drying and Curing time

Substrate temperature	10 °C	15 °C	23 °C	40 °C	100 °C
Surface (touch) dry	10 h	6 h	2 h	2 h	30 min
Walk-on-dry	24 h	24 h	6 h	4 h	1 h
Dry to over coat, minimum	24 h	24 h	6 h	4 h	1 h

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 shortest time allowed before the next coat can be applied.

## Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	650 °C	720 °C

Maximum temperature with zinc silicate primer is 420 °C continuous and 540 °C peak.

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

## 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: zinc silicate  
Subsequent coat: silicone acrylic

## Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotatemp 650	5	5

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

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### Storage

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

### Shelf life at 23 °C

Jotatemp 650 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.

### Caution

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.

### Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

### Disclaimer

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.