



# 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.

[www.newguardcoatings.com](http://www.newguardcoatings.com)

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## Jotachar JF750

### Product description

This is a two component solvent free amine cured 100% solids epoxy intumescent coating. Specially designed as an intumescent coating to provide fire protection for steel in hydrocarbon pool and jet fires for different types of structures and equipment. No additional reinforcing mesh is required. To be used as mid coat as part of a complete system in atmospheric environments. Suitable on approved primers on carbon steel, aluminium, hot dipped galvanized steel and stainless steel substrates.

### Typical use

Typically used in the oil, gas and energy industries. Suitable in both offshore and onshore environments for the passive fire protection of structural carbon steel, stainless steel, GRP and concrete.

In line with all epoxy intumescent technologies, the product is suitable for use on process pipe work, vessels or equipment operating up to 176°F (80 °C). At higher service temperatures, between 176 °F to 302 °F (80-150 °C), Jotatherm TB550 should be used as thermal syntactic insulation between substrate and Jotachar or as thermal insulation on top of Jotachar for atmospheric heat radiation.

Please contact your local sales representative for more information.

### Approvals and certificates

BS 476 Part 21 Hydrocarbon Pool Fire curve for structural and divisional fire protection  
ISO 22899 Jet Fire Standard for structural and divisional fire protection  
NORSOK M-501, System 5A, Rev. 6  
ISO 20340 Cyclic Durability Testing  
Resistance to Blast Over Pressure up to 4BarG  
NFPA 290 Hose Stream Resistance  
Certified and approved by Lloyds Register of Shipping  
Det Norske Veritas Type Approval  
ANSI/UL 1709  
Bureau Veritas  
ABS

Additional certificates and approvals may be available on request.

### Colors

grey

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	100 %
Flash point	ISO 3679 Method 1	212 °F (100 °C)
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	0 lbs/gal

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

Applied density by plural component spray (ISO 1183:1987 Method A): 1.0 g/cm<sup>3</sup>

Note: Applied density value is typical and provided for guidance only. The final applied density will be affected by equipment setup and/or method of application. Please refer to the Application Guide for this product.

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## Film thickness per coat

### Typical recommended specification range

#### Dry film thickness:

2 - 35 mm (dependent upon the fire case and project specific requirements)

#### Theoretical spreading rate:

1 kg of Jotachar JF750 will cover 1 m<sup>2</sup> per 1 mm applied (based on plural component spray)

Typical Maximum Thickness per coat can be up to 400 mils / 10 mm.

High film build can be achieved dependent upon steelwork configuration, geometry, ambient conditions, pump type and set up as well as primer used.

Maximum DFT is the thickness at which the system can be applied without sagging or slumping.

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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.

Refer to the Application Guide (AG) for additional information.

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

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## Application

### Application methods

The product can be applied by

Spray: Use two component heated plural spray unit or modified airless spray (with heating equipment). Refer to the Application Guide (AG) for additional information.

Note: All pumps used for the application of this product must be certified by Jotun.

Trowel: Refer to the Application Guide (AG) for additional information.

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## Product mixing ratio (by weight)

Jotachar JF750 Comp A	1 part(s)
Jotachar JF750 Comp B	1 part(s)

Individual components must have been stored for minimum 12 hours at 77 to 86 °F (25 to 30 °C). Stir/mix thoroughly with a power agitator before application.

## Thinner/Cleaning solvent

Thinner:	Jotun Thinner No. 7 / Jotun Thinner No. 17 / Jotun Thinner No. 10
Thinning max:	5 %

Thinning is typically 5 % by volume for modified airless spray and manual application.  
For rolling, use Jotun Thinner No. 7 or Jotun Thinner No. 17.

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

Cleaning solvent: Jotun Thinner No. 7

When thinners are used as a cleaning solvent, the use must be in accordance with prevailing local regulations.

## Guiding data for airless spray

Nozzle tip (inch/1000):	31-41
Pressure at nozzle (minimum):	200 bar/2900 psi

## Drying and Curing time

Temperatures:  
-10°C = 14°F / -5°C = 23°F / 0°C = 32°F / 5°C = 41°F / 10°C = 50°F / 15°C = 59°F / 23°C = 73°F / 35°C = 95°F / 40°C = 104°F / 100°C = 212°F

Substrate temperature	5 °C	15 °C	23 °C	40 °C
Surface (touch) dry	6 h	3 h	1 h	1 h
Walk-on-dry	24 h	12 h	6 h	3 h
Dried to over coat, minimum	6 h	3 h	2 h	1 h
Dried/cured for service	24 h	12 h	6 h	3 h

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

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

Temperatures: 15°C = 59°F / 23°C = 73°F

Paint temperature	15 °C	23 °C
Pot life	45 min	40 min

The given figures are for trowel and roller workability.  
Working pot life is not applicable for plural airless spray application as the material is mixed at the spray gun during application. For single leg airless spray and manual application, mixed material should be applied with minimum delay. Due to exothermic reaction, the larger the volume of mixed material, the shorter the pot life will be.

## Heat resistance

Dry, atmospheric  
Continuous: 80 °C

Vessel blow down, steam out: 356 °F (180 °C) for durations not exceeding 24 hours.

Oil and gas flaring: 248 °F (120 °C) to accommodate accidental and infrequent surface temperature increases due to gas flaring operations within offshore and onshore facilities, for durations not exceeding 60 minutes.

With Jotatherm TB550  
Continuous: 150°C

At higher continuous service temperatures, between 176 °F - 302 °F (80 °C - 150 °C), Jotatherm TB550 should be used as thermal syntactic insulation between substrate and Jotachar or as thermal insulation on top of Jotachar for atmospheric heat radiation. Aesthetic properties may suffer at these continuous temperatures.

Please contact your local sales representative for more information.

## 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: epoxy, zinc epoxy, epoxy zinc phosphate, epoxy mastic  
Subsequent coat: crosslinked acrylic, polyurethane, polysiloxane, epoxy

Primers used under this product must be approved by Jotun. For the list of approved primers, please consult Jotun.

See Application Guide.

## Packaging (typical)

	Weight	Size of containers (liters)
Jotachar JF750 Comp A	20 kg / 10 kg / 2.5 kg	20 / 10

Jotachar JF750 Comp B

20 kg / 10 kg /  
2.5 kg

20 / 10 /  
5

2.5 kg = 5.5 lbs  
10 kg = 22 lbs  
20 kg = 44.1 lbs

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, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Storage temperature not to exceed 95 °F (35 °C). Store away from direct sunlight. Protect from frost.

## Shelf life at 73°F (23 °C)

Jotachar JF750 Comp A

18 month(s)

Jotachar JF750 Comp B

18 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 antifouling 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

## Jotachar JF750



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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.

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