

Technical Data

Jotachar JF750



Product description

This is a two component solvent free amine cured epoxy intumescent coating. Specially designed to provide passive fire protection for steel in hydrocarbon pool and jet fires for different types of structures and equipment. To be used as a mid coat as part of a complete system in atmospheric environments. Suitable on approved primers on carbon steel, aluminium and stainless steel substrates. This product does not require any additional reinforcing mesh.

Recommended use

Approved for use on a wide range of steel structures, fire resistant divisions or vessels that require fire protection against hydrocarbon pool or jet fires. Typically used in the oil, gas and energy industries. Suitable for both offshore and onshore environments.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	2000	10000	6000
Film thickness, wet (μm)	2000	10000	6000
Theoretical spreading rate (m^2/l)			

Comments

1 kg of product will provide 1 mm of protection to 1m^2 (plural component spray).

Approvals

BS 476 Part 21 Hydrocarbon Pool Fire curve for structural and divisional fire protection
ISO 22899-1 Jet Fire Standard for structural and divisional fire protection
NORSOK M-501, Revision 6
ISO 20340 Cyclic Durability Testing
Resistance to Blast Over Pressure
Certified and approved by Lloyds Register of Shipping

Additional approvals and certification may be available on request.

Physical properties

Colour	Grey
Solids (vol %)*	100 ± 0
Flash point	>100°C (Setaflash)
VOC	0 lbs/gal (0 gms/ltr) USA-EPA Method 24
Water resistance	Very good
Abrasion resistance	Very good
Chemical resistance	Very good
Flexibility	Very good

*Measured according to ISO 3233:1998 (E)

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: Blast cleaning to Sa 2½ (ISO 8501-1:2007). Roughness: using abrasives suitable to achieve grade Fine to Medium S/G (30-85 µm, Ry5) (ISO 8503-2)

Coated surfaces

Clean, dry and undamaged compatible primer. Please contact your local Jotun office for more information.

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 5°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The coating should not be exposed to water, chemicals or mechanical stress until cured.

See Jotachar JF750 Application Guide for full details.

Application methods

Spray	Use two component heated plural spray unit or modified airless spray (with heating equipment). Contact your local Jotun office for further recommendations.
Other	Trowel, see application procedure.

Application data

Mixing ratio (volume)	1:1 (1:1 by weight)
Mixing	1 part Comp. A (Base) to be mixed thoroughly with 1 part Jotachar JF750, Comp. B (Curing agent). Individual components must have been stored for 24 hours at 25 to 30 °C (77 to 86 °F). For modified airless or manual application, stir/mix thoroughly with a power agitator before application.
Thinner/Cleaner	Jotun Thinner No. 29. Thinning is typically 5 % by volume for modified airless spray and manual application.
Note	* The product must have a temperature in the can of min. 25 °C at point of mixing. * All pumps used for the application of this product must be certified by Jotun.

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

Around 50 % RH

Substrate temperature	5°C	15°C	23°C	40°C
Surface dry	6 h	3 h	2 h	1 h
Through dry	24 h	12 h	6 h	3 h
Dry to recoat, minimum	6 h	3 h	2 h	1 h
Dry to recoat, maximum ¹				

1. Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.
2. Early exposure to condensation (high humidity, low temperature) may cause colour and/or gloss variations.

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

Barrier Plus	1 x 60 µm	(Dry Film Thickness)
* Jotachar JF750	2 x 5000 µm	(Dry Film Thickness)
Hardtop XP	1 x 60 µm	(Dry Film Thickness)

* Actual DFT is subject to the substrate type, required fire duration, certification and steel section size.

Primers and topcoats must be compatible and approved for use with this product to ensure fire performance. Contact your local Jotun office for a list of approved Jotun primers and topcoats.

Other systems may be specified, depending on area of use

Storage

The product must be stored above 0°C and in accordance with national regulations, subject to re-inspection thereafter. 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.

Packing size

42 kg unit *: 21 kg Comp. A and 21 kg Comp. B, supplied in 20 litre containers
or
20 kg unit: 10 kg Comp. A and 10 kg Comp. B, supplied in 20 litre containers.

* Note: 42 kg unit is meant for plural spray only. Not to be mixed manually.

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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