Technical Data
Tankguard SF

Product description
Tankguard SF is a solvent-free, novolac phenolic epoxy tank coating.

Recommended use
Tankguard SF is designed to be used for corrosion protection for the internal lining of steel storage tanks e.g crude oil and Clean petroleum products. Tankguard SF has Jet A1 approval. Please contact Jotun for specific recommendations.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	150	500	200
Film thickness, wet (µm)	150	500	200
Theoretical spreading rate (m^2/l)	6,7	2	5

Approvals
Aviation Fuel certificate according to DEF STAN 80-97 Annex G.

Physical properties

Colour	Buff, Light grey, Light Red
Solids (vol %)*	100 ± -2
Flash point	>100ºC (Setaflash)
VOC	0,83 lbs/gal (90 gms/ltr) USA-EPA Method 24 30 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Glossy
Water resistance	Excellent
Abrasion resistance	Very good
Solvent resistance	Excellent
Chemical resistance	Excellent
Flexibility	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 min. Sa 2 ½ (ISO 8501 1:2007). Roughness: using abrasives suitable to achieve Grade Medium G (50 - 85 µm, Ry5) (ISO 8503-2).

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 minimum 3°C above the dew point of the air. Best intercoat adhesion is obtained by utilising the induction time indicated after mixing of the two components and with Relative Humidity below 60% during the application process. The temperature and the relative humidity should be 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 oil, chemicals or mechanical stress until cured.

Application methods

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

Application data

Mixing ratio (volume)	2.2:1
Mixing	2.2 parts Comp. A (base) to be mixed thoroughly with 1 part Tankguard SF, Comp. B (curing agent).
Induction time	10 minutes.
Pot life (23°C)	1 hour (reduced at higher temperature).
Cleaner	Use Jotun Thinner No. 17 for cleaning equipment after application.
Guiding data airless spray	
Pressure at nozzle	25 - 35 MPa (3600 - 5000 p.s.i.)
Nozzle tip	0.46 mm - 0.66 mm (0.018” - 0.026”)
Spray angle	40° - 80°
Filter	Min. 60 mesh recommended. Check to ensure that filters are clean.
Note	* It is of vital importance that the nozzle and other parts of the spraying equipment are cleaned properly directly after the work is done due to the short pot life. * The hoses should be of good quality and not longer than necessary. * An extra whip 1 m prior to the spray gun may be used. * Both components should have a temperature between 23 and 28 degrees C prior to application. For stripe coating, however, a lower paint temperature may be favourable, in order to get a sufficient pot life.

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**	**23°C**	**40°C**
Surface dry	15 h	6 h	1,5 h
Through dry	30 h	12 h	4 h
Cured	15 d	7 d	4 d
Dry to recoat, minimum	30 h	12 h	4 h
Dry to recoat, maximum	30 d	14 d	5 d

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

Tankguard SF	**2 x 200 microns**	**(Dry Film Thickness)**
or		
Tankguard SF	**1 x 300 microns**	**(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

11 litres Comp. A (Base) in a 20 litre container and 5 litres Tankguard SF, Comp. B (curing agent) in a 5 litre container

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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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