

Tankguard Type III

Product description

This is a two component solvent free amine cured phenolic/novolac epoxy coating reinforced with ceramic fillers and glass flakes. It has a high resistance to most sour crude oils and a wide range of chemicals and solvents. Can be used as primer, mid coat or finish coat in atmospheric and immersed environments. Suitable for properly prepared carbon steel substrates.

Typical use

Protective:
Specially designed to meet crucial requirements of the petroleum industry.

Meets the requirement of the API 652 guideline as a thick film reinforced lining.

Shipping:
Product can be used as an internal lining for chemical storage, wastewater, grey water, process water and hot water tanks. Please refer to Jotun chemical resistance guide database.

Approvals and certificates

Petrobras N-2912 norm for Type III Novolac Epoxy Paint

Additional certificates and approvals may be available on request.

Colours

Munsell 5G8/4, Munsell N6.5, Munsell N9.5

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	100 %
Gloss level (GU 60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	100 °C
Density	calculated	1.5 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	38 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	200 - 600	µm
Wet film thickness	200 - 600	µm
Theoretical spreading rate	5 - 1.7	m ² /l

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	Sa 2½ (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Note: The water jetting shall only be used for maintenance services. For new constructions, the water jetting is permitted only if combined with abrasives. Reference to Application Guide.

Application

Application methods

The product can be applied by

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

The temperature of the two components is recommended to be between 25-35 °C prior to application.

Product mixing ratio (by volume)

Tankguard Type III Comp A	3.5 part(s)
Tankguard Type III Comp B	1 part(s)

Thinner/Cleaning solvent

Cleaning solvent: Jotun Thinner No. 17

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):	19-25
Pressure at nozzle (minimum):	175 bar/2500 psi

Drying and Curing time

Substrate temperature	15 °C	23 °C	40 °C
Surface (touch) dry	12 h	8 h	2 h
Walk-on-dry	24 h	16 h	8 h
Dry to over coat, minimum	24 h	16 h	8 h
Dried/cured for service	7 d	3 d	2 d

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

Paint temperature	23 °C
Induction time	10 min
Pot life	45 min

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	150 °C	-
Immersed, sea water	150 °C	-

Note that the coating will be resistant to various immersion temperatures depending on the specific chemical and whether immersion is constant or intermittent. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

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: itself only
Subsequent coat: itself only

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Tankguard Type III Comp A	14	20
Tankguard Type III Comp B	4	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.

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, 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

Tankguard Type III Comp A	18 month(s)
Tankguard Type III 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.

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 and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

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.