# Tankguard Storage

## Product description

This is a two component polyamine cured phenolic/novolac epoxy coating. It is a specially designed tank lining with excellent chemical resistance. Can be used as primer, mid coat or finish coat in atmospheric and immersed environments. Suitable for properly prepared carbon steel, galvanised steel, stainless steel and concrete substrates.

### Typical use

Protective:
Specially designed as an internal lining for offshore, onshore and buried tanks and pipes such as chemical storage, waste water, grey water, process water, concrete bund, fire service lines and drilling mud tanks. Can be used in pressure vessels. This coating has very good resistance to high temperature products. Refer to Protective Resistance Guide.

### Approvals and certificates

Approved to UK Defence Standard 80-97 issue 5, annex G for resistance to Avcat F-44 aviation fuel
Certified in accordance with IMO Res.288(87) – PSPC Crude Oil Tanks

Additional certificates and approvals may be available on request.

### Colours

light grey, light red, red, white

## Product data

| Property | Test/Standard | Description |
|---|---|---|
| Solids by volume | ISO 3233 | 63 ± 2 % |
| Gloss level (GU 60 °) | ISO 2813 | matt (0-35) |
| Flash point | ISO 3679 Method 1 | 28 °C |
| Density | calculated | 1.6 kg/l |

| Region | Regulation | Test Standard | VOC Value |
|---|---|---|---|
| US | CARB(SCM)2020 / SCAQMD rule 1113 | Calculated | 340 g/l |
| Hong Kong | Air Pollution Control (VOC) Regulation | Calculated | 340 g/l |
| EU | European Paint Directive 2004/42/CE | Calculated | 340 g/l |
| EU IED | Industrial Emission Directive 2010/75/EU | Calculated | 340 g/l |
| Korea | Korea Clean Air Conservation Act | KS M ISO 11890-1 | 287 g/l |
| China | Mandatory national standard of China | GB 30981.2-2025 | 317 g/l |



This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

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 | - | 200 | µm |
| Wet film thickness | 160 | - | 320 | µm |
| Theoretical spreading rate | 6.3 | - | 3.2 | m²/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 |
| Stainless steel | The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface. | Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile. |
| Galvanised steel | The surface shall be clean, dry and appear with a rough and dull profile. | Sweep blast-cleaning using non-metallic abrasive leaving a clean, rough and even pattern. |
| Concrete | Dry abrasive blast cleaning to SSPC-SP 13/NACE No. 6. | Dry abrasive blast cleaning to SSPC-SP 13/NACE No. 6. |

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

# Application

## Application methods

The product can be applied by

Spray: Use airless spray.



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| | |
|---|---|
| Brush: | Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness. |
| Roller: | Roller application only to be used for scallops, ratholes, small pipes etc. |

## Product mixing ratio (by volume)

| | |
|---|---|
| Tankguard Storage Comp A | 6.5 part(s) |
| Tankguard Storage Comp B | 1 part(s) |

## Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17 / Jotun Thinner No. 23

## Guiding data for airless spray

| | |
|---|---|
| Nozzle tip (inch/1000): | 17-21 |
| Pressure at nozzle (minimum): | 150 bar/2100 psi |

# Drying and Curing time

| Substrate temperature | 10 °C | 15 °C | 23 °C | 30 °C | 40 °C |
|---|---|---|---|---|---|
| Surface (touch) dry | 15 h | 12 h | 4 h | 3 h | 2 h |
| Walk-on-dry | 24 h | 20 h | 10 h | 8 h | 4 h |
| Dry to over coat, minimum | 24 h | 20 h | 10 h | 7 h | 4 h |
| Dried/cured for service | 21 d | 14 d | 7 d | 4 d | 3 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.

For storage of crude oil and clean petroleum products the tanks can be returned to service 48 hours after application of the final coat, when applied at temperatures 23 °C and above.

For a list of what constitutes clean petroleum products please refer to Jotun Product Resistance Guide.

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.



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## Induction time and Pot life

| Paint temperature | 23 °C |
|---|---|
| Induction time | 20 min |
| Pot life | 4 h |

## Heat resistance

| | Temperature | |
|---|---|---|
| | Continuous | Peak |
| Dry, atmospheric | 200 °C | - |
| Immersed, sea water | 95 °C | - |
| Immersed, crude oil | 120 °C | - |

Further resistance information can be found in Protective Product Resistance List available on Jotun's website, or contact your local Jotun office.

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: phenolic/novolac epoxy

Subsequent coat: phenolic/novolac epoxy

Tankguard Holding Primer can be used as a temporary protection and is fully compatible with the tank coating system.

## Packaging (typical)

| | Volume (litres) | Size of containers (litres) |
|---|---|---|
| Tankguard Storage Comp A | 16.3 | 20 |
| Tankguard Storage Comp B | 2.5 | 3 |

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.



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### Shelf life at 23 °C

| | |
|---|---|
| Tankguard Storage Comp A | 24 month(s) |
| Tankguard Storage Comp B | 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.

## Environmental Documentation

This product can contribute to Green Building Standard credits. Please refer to Jotun.com for more information or contact your local Jotun representative.

Environmental Product Declaration (EPD) is available at www.epd-norge.no

## Caution

This product is for professional use only. The applicator and operator 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 should 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 in 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 sought medical attention 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 data given 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.