

Tankguard HB Classic

Product description

This is a two component polyamine cured epoxy coating. It has good 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

Marine:

Designed as an internal tank coating for chemical tanks. This coating has good resistance to a wide range of products. Refer to Marine Product Resistance List on www.jotunpri.com. Can be used as a coating for grey water, drilling mud, brine and crude oil tanks.

Protective:

Recommended as an internal lining for offshore, onshore and buried tanks and pipes. Refer to Protective Product Resistance List.

Colours

pink, grey, yellow

Product data

Property	Test/Standard	Description
Solids by volume	OCCA Monograph No. 4	65 ± 2 %
Gloss level (60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	23,5 °C
Specific gravity	calculated	1,5 kg/l
VOC-USA / VOC-Hong Kong	EPA Method 24	330 g/l

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

All data is valid for mixed paint.

Gloss level: According to Jotun Performance Coatings' definition.

Recommended film thickness per coat

Film thickness and spreading rate	Dry film thickness	Wet film thickness	Theoretical spreading rate (m ² /l)
	(µm)	(µm)	
Minimum	80	125	8,1
Maximum	160	245	4,1
Typical	150	230	4,3

Maximum recommended film thickness is often exceeded in overlap zones and in difficult-to-spray areas. This product can be applied up to 50 % higher than maximum specified film thickness without loss of technical properties.

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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.

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 (ISO 12944-4 6.1)	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)
Concrete	Dry abrasive "Brush Blast" cleaning to NACE No. 4/SSPC-SP 7	Dry abrasive "Brush Blast" cleaning to NACE No. 4/SSPC-SP 7
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 and to remove all polish from the surface.	Abrasive blast cleaning to achieve a surface profile using approved 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.	Light brush blasting using non-metallic abrasive leaving a clean, rough and even pattern.

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.

Product mixing ratio (by volume)

Tankguard HB Classic Comp A	4 part(s)
Tankguard HB Classic Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 23

Guiding data for airless spray

Nozzle tip (inch/1000): 17-23

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Pressure at nozzle (minimum): 150 bar/2100 psi

Drying and Curing time

Substrate temperature	0 °C	5 °C	10 °C	15 °C	23 °C	40 °C
Surface (touch) dry	24 h	14 h	8 h	6 h	3 h	1 h
Walk-on-dry	30 h	20 h	10 h	8 h	4 h	2 h
Dry to over coat, minimum	34 h	24 h	12 h	10 h	4 h	2 h
Dry to over coat, maximum, atmospheric	60 d	40 d	25 d	23 d	21 d	7 d
Dried/cured for service	40 d	28 d	14 d	12 d	7 d	3 d
Dried/cured for immersion	20 d	14 d	7 d	6 d	4 d	2 d

Drying and curing times are determined under controlled temperatures and relative humidity below 85%, and at the typical DFT for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness. Dry sand sprinkled on the surface can be brushed off without sticking to or causing damage to the surface.

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 shortest time allowed before the next coat can be applied.

Dry to over coat, maximum, atmospheric: The longest time allowed before the next coat can be applied without any surface preparation.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Dried/cured for immersion: Minimum time before the coating can be permanently immersed in sea water.

Induction time and Pot life

Paint temperature	23 °C
Induction time	10 min
Pot life	2 h

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	120 °C	140 °C
Immersed, sea water	60 °C	60 °C

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

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

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

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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: epoxy
Subsequent coat: epoxy

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Tankguard HB Classic Comp A	16	20
Tankguard HB Classic 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, 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 HB Classic Comp A	24 month(s)
Tankguard HB Classic 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.

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.

Date of issue: 21 May 2015

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Colour variation

Products primarily meant for use as primers and antifouling may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

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.

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