TopGloss

Product description

This is a two component acrylic polyurethane coating. It has a good gloss finish and very good levelling characteristics. It has a very good gloss retention. To be used as a topcoat for aggresive atmospheric exposure.

Typical use

To be used for unlined yacht interiors and engine room machinery with dry temperature up to 100 °C. Specially designed for spray application but can be applied by brush and roller.

Approvals and certificates

When used as part of an approved scheme, this material has the following certification:
- Low Flame Spread in accordance with EU Directive for Marine Equipment. Approved in accordance with parts 5 and 2 of Annex 1 of IMO 2010 FTP Code, or Parts 5 and 2 of Annex 1 of IMO FTPC when in compliance with IMO 2010 FTP Code Ch. 8

Additional certificates and approvals may be available on request.

Colours

according to colour card

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	50 ± 2 %
Gloss level (GU 60 °)	ISO 2813	high gloss (85+)
Flash point	ISO 3679 Method 1	31 °C
Density	calculated	1.3 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	490 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	443 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 description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	30	-	50	µm
Wet film thickness	60	-	100	µm
Theoretical spreading rate	16.6	-	10	m²/l

Spray application:
Three wet-on-wet coats at 20 µm DFT each are recommended. WFT values are for unthinned product. To achieve the specified DFT after thinning it is necessary to increase the WFT with 20-25 %.

Brush and roller application:
To achieve the recommended DFT, multiple coats will be required. Between each coat, allow at least 8 hours. WFT values are for unthinned product. To achieve the specified DFT after thinning it is necessary to increase the WFT with 5-15 %.

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surfaces with grease, oil or other contamination, wash with recommended Jotun Yachting detergent.

Surface preparation summary table

	Surface preparation	
Substrate	**Minimum**	**Recommended**
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Application

Application methods

The product can be applied by

Spray:	Use air spray (Gravity, pressure pot, electrostatic). Airless spray may be used.
Brush:	Use high-quality natural brushes (such as badger or ox hair).
Roller:	Use a suitable roller. However when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Product mixing ratio (by volume)

TopGloss Comp A	3.5 part(s)
TopGloss Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 12 / Jotun Thinner No. 18 / Jotun Thinner No. 19

Air spray application
Reduce the viscosity by thinning the product.
10 °C - 18 °C: Jotun Thinner No. 19
18 °C - 35 °C: Jotun Thinner No. 18
35 °C - : Mixture of: Jotun Thinner No. 18, Jotun Thinner No. 12

The ideal viscosity of this product is 14-16 seconds when measured with Ford Cup #4 (13-15 seconds with DIN Cup #4). This may require thinning by approximately 20-25 %, depending on temperature and the solvent used.

Brush and roller application
Reduce the viscosity by thinning the product.
Jotun Thinner No. 12

Guiding data for airless spray

Refer to the Application Guide (AG) for additional information.

Guiding data for air spray

Refer to the Application Guide (AG) for additional information.

Guiding data for electrostatic spray

Refer to the Application Guide (AG) for additional information.

Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	4 h	2 h	1 h	30 min
Walk-on-dry	30 h	16 h	8 h	4 h
Dry to over coat, minimum	18 h	10 h	5 h	2.5 h
Dry to over coat, maximum, atmospheric	6 d	3 d	1.5 d	18 h
Dried/cured for service	15 d	10 d	5 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.

Dry to over coat, maximum, atmospheric: The longest time allowed 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
Pot life	4 h

Reduced at higher temperatures

Product compatibility

Previous coat: epoxy, polyurethane
Subsequent coat: alkyd, polyurethane

Packaging (typical)

	Volume (litres)	Size of containers (litres)
TopGloss Comp A	3.5	5
TopGloss Comp B	1	1

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

TopGloss Comp A	48 month(s)
TopGloss Comp B	48 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.

Disposal of waste

N/A

Caution

The product is suitable for both professional and consumer application. **The product must be sprayed by professionals 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 may fade and 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., and application quality. 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.