Megagloss HG

Product description

This is a two component chemically curing linear polyester based coating. It is a premium high solids topcoat with high gloss finish and excellent Distinctness of Image (DOI). It has excellent abrasion resistance, flexibility and colour and gloss retention. To be used as topcoat in atmospheric environments.

Typical use

Exterior areas, including hull, above waterline and superstructure.

Colours

according to colour card and Multicolor Industry tinting system (MCI)

Product data

Property	Test/Standard	Description
Megagloss HG Spray Comp B		
Solids by volume	ISO 3233	52 ± 2 %
Gloss level (GU 60 °)	ISO 2813	high gloss (85+)
Flash point	ISO 3679 Method 1	14 °C
Density	calculated	1.1 kg/l

Region	Regulation	Test Standard	VOC Value
EU	European Paint Directive 2004/42/CE	Calculated	425 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	425 g/l

Megagloss HG Roller Comp B		
Solids by volume	ISO 3233	52 ± 2 %
Flash point	ISO 3679 Method 1	47 °C
Density	calculated	1.1 kg/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.

The above data is valid for mixed, non-diluted product.

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Film thickness per coat

Typical recommended specification range

Dry film thickness	45	-	90	µm
Wet film thickness	90	-	175	µm
Theoretical spreading rate	11.5	-	5.8	m²/l

Spray application:
As curing agent, use Megagloss HG Spray Comp B.
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:
As curing agent, use Megagloss HG Roller Comp B.
To achieve the recommended DFT, multiple coats will be required. Between each coat, allow at least 12 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

Surface preparation summary table

	Surface preparation	
Substrate	**Minimum**	**Recommended**
Coated surfaces	Megaprimer, Megaprimer Lite and Megagloss HG: After curing, follow with manual or power tool sanded with aluminium oxide or silicon carbide sandpaper with grit P320. The surface for topcoating should be solvent wiped using Jotun Thinner No. 18. Wipe solvent on with a clean white cotton cloth and then wipe off the solvent with another clean white cotton cloth.	Megaprimer, Megaprimer Lite and Megagloss HG: After curing, follow with manual or power tool sanded with aluminium oxide or silicon carbide sandpaper with grit P320 followed with grit P400 to avoid leaving scratch marks. The surface for topcoating should be solvent wiped using Jotun Thinner No. 18. Wipe solvent on with a clean white cotton cloth and then wipe off the solvent with another clean white cotton cloth.

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

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Spray:	Use air spray (Gravity, pressure pot, electrostatic). Airless spraying is not recommended.
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)

Megagloss HG Spray Comp B

Megagloss HG Comp A	1 part(s)
Megagloss HG Spray Comp B	1 part(s)

Megagloss HG Roller Comp B

Megagloss HG Comp A	1 part(s)
Megagloss HG Roller Comp B	1 part(s)

Thinner/Cleaning solvent

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

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	15 °C	23 °C	35 °C
Spray hardener			
Surface (touch) dry	3.5 h	3 h	3 h
Dry to over coat, minimum	10 h	7.5 h	5 h
Dried/cured for service	10 d	7 d	3 d
Roller hardener			
Surface (touch) dry	9 h	5 h	3 h
Dry to over coat, minimum	17 h	9 h	5 h
Dried/cured for service	14 d	10 d	7 d

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Note:
Minimum drying times for wet-on-wet application:
Spray hardener: Following layer is applied when precedent coat is tacky, and with 25 % solvent addition
Roller hardener: Following layer is applied when precedent coat is tacky dry, and with 10 % solvent addition

Dry to overcoat, minimum (wet-on-wet):
15 °C: 1 h
23 °C: 45 min
35 °C: 30 min

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.

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
Pot life	8 h

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, polyurethane

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Megagloss HG Spray Comp B		
Megagloss HG Comp A	2.25	3
Megagloss HG Spray Comp B	2.25	3
Megagloss HG Roller Comp B		
Megagloss HG Comp A	2.25	2.8
Megagloss HG Roller Comp B	2.25	2.5

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

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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

Megagloss HG Comp A	24 month(s)
Megagloss HG Spray Comp B	24 month(s)
Megagloss HG Roller 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

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

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.

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If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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