

Technical Data Sheet



Megagloss AC

Product description

This is a two component chemically curing acrylic polyurethane coating. It is an abrasion resistant high solids product. It has a high gloss finish with excellent gloss retention. To be used as topcoat in atmospheric environments.

Typical use

Exterior areas, including hull, above waterline and superstructure.

Repairs by polishing/buffing is possible. For further advice please contact your local Jotun office.

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

(For a limited selection of light colors.)

Additional certificates and approvals may be available on request.

Colours

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

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	60 ± 2 %
Gloss level (GU 60 °)	ISO 2813	high gloss (85+)
Flash point	ISO 3679 Method 1	36 °C
Density	calculated	1.2 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	332 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	332 g/l
EU	European Paint Directive 2004/42/CE	Calculated	332 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	332 g/l
Korea	Korea Clean Air Conservation Act	Calculated	332 g/l

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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.

Film thickness per coat

Typical recommended specification range

Dry film thickness	45 - 90	µm
Wet film thickness	75 - 150	µm
Theoretical spreading rate	13.3 - 6.7	m ² /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 5-10 %.

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	<p>Megaprimer, Megaprimer Lite and Megagloss AC:</p> <p>After curing, follow with manual or power tool sanded with aluminium oxide or silicon carbide sandpaper with grit P320.</p> <p>The surface for topcoating should be solvent wiped using Jotun Thinner No. 18.</p> <p>Wipe solvent on with a clean white cotton cloth and then wipe off the solvent with another clean white cotton cloth.</p>	<p>Megaprimer, Megaprimer Lite and Megagloss AC:</p> <p>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.</p> <p>The surface for topcoating should be solvent wiped using Jotun Thinner No. 18.</p> <p>Wipe solvent on with a clean white cotton cloth and then wipe off the solvent with another clean white cotton cloth.</p>

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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 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 AC Comp A	4 part(s)
Megagloss AC Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 18

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
Comp A + Comp B			
Surface (touch) dry	3 h	2.5 h	2 h
Dry to over coat, minimum	7.5 h	5 h	4 h
Dried/cured for service	8 d	5 d	3 d
Comp A + Comp B + Thinner			
Surface (touch) dry	3 h	2.5 h	2 h
Dry to over coat, minimum	7.5 h	5 h	4 h
Dried/cured for service	10 d	6 d	3 d

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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	6 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 AC Comp A	0.8 / 2.4 / 4	1 / 3 / 5
Megagloss AC Comp B	0.2 / 0.6 / 1	0.375 / 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, 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 AC Comp A	48 month(s)
Megagloss AC 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.

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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.