

MegaGloss Metallic

Product description

This is a two component chemically curing, modified acrylic coating. It has a matt metallic finish. To be used as a base coat in a metallic system where the product is over-coated with a glossy clear coat. To be used in atmospheric environments.

Scope

The Application Guide offers product details and recommended practices for the use of the product.

The data and information provided are not definite requirements. They are guidelines to assist with efficient and safe use, and optimum service of the product. Adherence to the guidelines does not relieve the applicator of responsibility for ensuring that the work meets specification requirements.

Jotuns liability is in accordance with general product liability rules.

The Application Guide (AG) must be read in conjunction with the relevant specification, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all the products used as part of the coating system.

Referred standards

Reference is generally made to ISO Standards. When using standards from other regions it is recommended to reference only one corresponding standard for the substrate being treated.

Surface preparation

The required quality of surface preparation can vary depending on the area of use, expected durability and if applicable, project specification.

When preparing new surfaces, maintaining already coated surfaces or aged coatings it is necessary to remove all contamination that can interfere with coating adhesion, and prepare a sound substrate for the subsequent product

Inspect the surface for hydrocarbon and other contamination and if present, remove with an alkaline detergent. Agitate the surface to activate the cleaner and before it dries, wash the treated area using fresh water. Paint solvents (thinners) shall not be used for general degreasing or preparation of the surface for painting due to the risk of spreading dissolved hydrocarbon contamination. Paint thinners can be used to treat small localized areas of contamination such as marks from marker pens. Use clean, white cotton cloths that are turned and replaced often. Do not bundle used solvent saturated cloths. Place used cloths into water.

Coated surfaces

Verification of existing coatings including primers

When the surface is an existing coating, verify with technical data sheet and application guide of the involved products, both over coatability and the given maximum over coating interval.

Organic primers/intermediates

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The surface of previous coats shall be free from contamination by water, hydrocarbon based products, wax, mud, mortar droppings and loose, chalked and flaking coating.

Inspect the surface for hydrocarbon and other contamination and if present, remove with an alkaline emulsifying detergent. Agitate the surface to activate the cleaner and before it dries, wash the treated area by low-pressure water cleaning (ISO 8501-4) using fresh water. Surfaces not contaminated with hydrocarbon deposits shall be washed according to ISO 12944-4, section 6.2.1 Water cleaning using fresh water to reduce surface chlorides. After curing, follow with manual or power tool sanding 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.

Application

Acceptable environmental conditions - before and during application

Before application, test the atmospheric conditions in the vicinity of the substrate for the dew formation according to ISO 8502-4.

Air temperature 15 - 35 °C Substrate temperature 15 - 35 °C Relative Humidity (RH) 35 - 70 %

The following restrictions must be observed:

- Only apply the coating when the substrate temperature is at least 3 °C (5 °F) above the dew point
- Do not apply the coating if the substrate is wet or likely to become wet
- Do not apply the coating if the weather is clearly deteriorating or unfavourable for application or curing
- Do not apply the coating in high wind conditions

Product mixing

Product mixing ratio (by volume)

MegaGloss Metallic Comp A 10 part(s)
MegaGloss Metallic Comp B 1 part(s)

Product mixing

A suitable mechanical stirrer must be used to secure homogeneity in each component, and to mix the components thoroughly until an even colour is obtained.

If required, additional thinner must be added and thoroughly mixed into the ready mixed paint.

Induction time and Pot life

Paint temperature	23 °C
Pot life	2 h

The temperature of base and curing agent is recommended to be 18 °C or higher when the product is mixed.

Thinner/Cleaning solvent

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Thinner: Jotun Thinner No. 71 / Jotun Thinner No. 72

Spray application:

Reduce the viscosity by thinning the metallic base coat 60-70% for the first two coats and subsequently, for the required fade out, dilute up to 100% adding an additional 30% with Jotun Thinner No 71 or Jotun Thinner No 72 to the metallic base coat.

The ideal viscosity for the base coat is 19-20 seconds when measured with DIN Cup #4.

Brush and roller application:

Not recommended

Cleaning solvent: Jotun Thinner No. 18

Application data

Spray application

Pressure feed/pressure pot system:

Pressure in pot: max. 1.2 bar

Spray gun: DeVilbiss Advance HD type or equivalent

Fluid Nozzle and Needle setup: 0.9-1.1 mm

Pressure at air cap: 2.8-3.2 bar Air cap: CDT - 770 - 797

Gravity gun system:

Spray gun: DeVilbiss Advance HD type or equivalent

Fluid Nozzle and Needle setup: 1.2-1.4

Pressure at air cap: 2.8-3.2

Air cap: 430-443

Film thickness per coat

Typical recommended specification range

Spray application:

Spray the base coat in 2 coats wet-on-wet to achieve full opacity. Jotun recommend a final drop coat to minimize the risk of stripes and blotching, followed by a full clear coat system. To achieve the specified DFT after thinning it is necessary to increase the WFT.

Film thickness measurement

Ventilation

Sufficient ventilation is very important to ensure proper drying/curing of the film.

Coating loss

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The consumption of paint should be controlled carefully, with thorough planning and a practical approach to reducing loss. Application of liquid coatings will result in some material loss. Understanding the ways that coating can be lost during the application process, and making appropriate changes, can help reducing material loss.

Some of the factors that can influence the loss of coating material are:

- type of spray gun/unit used
- air pressure used for airless pump or for atomization
- orifice size of the spray tip or nozzle
- fan width of the spray tip or nozzle
- the amount of thinner added
- the distance between spray gun and substrate
- the profile or surface roughness of the substrate. Higher profiles will lead to a higher "dead volume"
- the shape of the substrate target
- environmental conditions such as wind and air temperature

Drying and Curing time

Surface (touch) dry Surface (touch) dry Surface (touch) dry Dry to over coat, minimum Dried/cured for service 15 °C 23 °C 35 °C 30 min. 30 min. 30 min. 40 min. 40 min 40 min 11 h 12 h 10 h

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.

Other conditions that can affect drying / curing / over coating

Water/Moisture contamination

If the wet coating is exposed to relative humidity above 85% or to moisture before the coating is at least Walk-on-dry, then blushing may occur. Blushing will cause fading of bright colours, and will affect the gloss. Provided the coating is fully dried/cured the protective properties will not be affected.

All affected areas should be lightly sanded, cleaned and recoated.

Coating film continuity

When required by the specification, the coating shall be tested for film discontinuity according to ASTM D 5162, test method A or B as appropriate for the actual dry film thickness. All recorded defects shall be repaired by best practical means.

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Quality assurance

The following information is the minimum required. The specification may have additional requirements.

- Confirm that all welding and other metal work has been completed before commencing pre-treatment and surface preparation
- Confirm that installed ventilation is balanced and has the capacity to deliver and maintain the RAQ
- Confirm that the required surface preparation standard has been achieved and is held prior to coating application
- Confirm that the climatic conditions are within recommendations in the AG, and are held during the application
- Confirm that the required number of stripe coats have been applied
- Confirm that each coat meets the DFT requirements in the specification
- Confirm that the coating has not been adversely affected by rain or other factors during curing
- Observe that adequate coverage has been achieved on corners, crevices, edges and surfaces where the spray gun cannot be positioned so that its spray impinges on the surface at 90° angle
- Observe that the coating is free from defects, discontinuities, insects, abrasive media and other contamination
- Observe that the coating is free from misses, sags, runs, wrinkles, fat edges, mud cracking, blistering, obvious pinholes, excessive dry spray, heavy brush marks and excessive film build
- Observe that the uniformity and colour are satisfactory

All noted defects shall be fully repaired to conform to the coating specification.

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.

For further advice please contact your local Jotun office.

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.

Accuracy of information

Always refer to and use the current (last issued) version of the TDS, SDS and if available, the AG for this product. Always refer to and use the current (last issued) version of all International and Local Authority Standards referred to in the TDS, AG & SDS for this product.

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.

Reference to related documents

The Application Guide (AG) must be read in conjunction with the relevant specification, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all the products used as part of the coating system.

When applicable, refer to the separate application procedure for Jotun products that are approved to classification societies such as PSPC, IMO etc.

Symbols and abbreviations

min = minutes h = hours d = days

°C = degree Celsius

• = unit of angle

TDS = Technical Data Sheet AG = Application Guide

SDS = Safety Data Sheet

VOC = Volatile Organic Compound

MCI = Jotun Multi Colour Industry (tinted colour)

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 $\mu m = microns = micrometres$

g/I = grams per litre

g/kg = grams per kilogram

 $m^2/I = square metres per litre$

 $mg/m^2 = milligrams per square metre$

psi = unit of pressure, pounds/inch2

Bar = unit of pressure

RH = Relative humidity (% RH)

UV = Ultraviolet

DFT = dry film thickness

WFT = wet film thickness

RAQ = Required air quantity

PPE = Personal Protective Equipment

EU = European Union

UK = United Kingdom

EPA = Environmental Protection Agency

ISO = International Standards Organisation

ASTM = American Society of Testing and Materials

AS/NZS = Australian/New Zealand Standards

NACE = National Association of Corrosion Engineers

SSPC = The Society for Protective Coatings

PSPC = Performance Standard for Protective Coatings

IMO = International Maritime Organization
ASFP = Association for Specialist Fire Protection

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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