

Hardtop Smart Pack

Product description

This is a two component chemically curing modified acrylic coating. The product does not contain isocyanates. It has a glossy finish with good gloss retention. It can be used direct to metal. 1:1 mixing ratio for easy use and reduced wastage. Specially designed for application with brush and roller.

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 in smooth 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.

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.

Standard grade

°C Air temperature 5 - 50 °C Substrate temperature 5 - 60 Relative Humidity (RH) 10 - 85

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

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Product mixing ratio (by volume)

Component A to be separately mixed to a homogenous material. A flat spatula or flat, wooden stick might be suitable as mixing tools. Mix thoroughly the total blend (comp A + comp B) until a homogeneous body is obtained, including all material on the wall of the container.

Hardtop Smart Pack Comp A 1 part(s)
Hardtop Smart Pack Comp B 1 part(s)

Induction time and Pot life

Paint temperature	23 °C		
Pot life	4 h		

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

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

Application data

Spray application

Airless spray may be used.

Other application tools

Brush application

Suitable for application with brush. Use a high quality, clean natural or synthetic bristle brush with proper shape and size. When used as primer coat, a stiff brush is recommended to secure proper substrate wetting. When used as a finish coat a more long haired brush is recommended to improve flow and appearance. To achieve specified dry film thickness it may be necessary to apply multiple coats.

Roller application

Suitable for application with roller. Use a properly sized, high quality, clean roller with natural or synthetic cover. Pre-wash new rollers in proper thinner to remove loose fibres. Roller is not recommended for application of primer coat. Addition of small volumes (5-10 %) of thinner will improve appearance when used as finish coat. To achieve specified dry film thickness it may be necessary to apply multiple coats.

Film thickness per coat

Typical recommended specification range

Dry film thickness 60 - 150 μm Wet film thickness 100 - 200 μm Theoretical spreading rate 9,7 - 3,8 m^2/l

Bright colours may need film thickness in the high end of the recommended specification range to achieve opacity.

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Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	6 h	4 h	2.5 h	2 h
Walk-on-dry	25 h	20 h	10 h	5 h
Dry to over coat, minimum	25 h	20 h	10 h	5 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.

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.

Maximum over coating intervals

Maximum time before thorough surface preparation is required. The surface must be clean and dry and suitable for over coating. Inspect the surface for chalking 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 by low-pressure water jetting to Wa 1 (ISO 8501-4) using fresh water.

If maximum over coating interval is exceeded the surface should in addition be carefully roughened to ensure good inter coat adhesion.

Areas for atmospheric exposure

Average temperature during drying/curing	5 °C	10 °C	23 °C	40 °C
Itself	6 mth	5 mth	4 mth	2 mth

Areas for immersed exposure

Average temperature during drying/curing	5 °C	10 °C	23 °C	40 °C
Itself	21 d	18 d	14 d	14 d

Quality assurance

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

- Confirm all welding and other metal work, whether internal or external to the tank, has been completed before commencing pre-treatment and surface preparation of the substrate
- Confirm installed ventilation is balanced and has the capacity to deliver and maintain the RAQ
- Confirm the required surface preparation standard has been achieved and is held prior to coating application
- Confirm that the climatic conditions are within recommendation in the AG and held during the application
- Confirm the required number of stripe coats have been applied
- Confirm each coat meets the DFT requirements of the specification
- Confirm the coating has not been adversely affected by rain or any other agency during curing
- Observe adequate coverage has been achieved on corners, crevices, edges and surfaces where the spray gun

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cannot be positioned so that its spray impinges on the surface at 90°

- Observe the coating is free from defects, discontinuities, insects, spent abrasive media and other contamination
- Observe 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 the uniformity and colour are satisfactory

All noted defects should 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

Some coatings used as the final coat may fade and chalk in time when exposed to sunlight and weathering effects. Coatings designed for high temperature service can undergo colour changes without affecting performance. Some slight colour variation can occur from batch to batch. When long term colour and gloss retention is required, please seek advice from your local Jotun office for assistance in selection of the most suitable top coat for the exposure conditions and durability requirements.

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

 $\mu m = microns = micrometres$

g/l = grams per litre

g/kg = grams per kilogram

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

mg/m² = milligrams per square metre

psi = unit of pressure, pounds/inch²

Bar = unit of pressure

RH = Relative humidity (% RH)

UV = Ultraviolet

DFT = dry film thickness

TDS = Technical Data Sheet

AG = Application Guide

SDS = Safety Data Sheet

VOC = Volatile Organic Compound

MCI = Jotun Multi Colour Industry (tinted colour)

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

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SSPC = The Society for Protective Coatings

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For your nearest local Jotun office, please visit our website at www.jotun.com.

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WFT = wet film thickness

PSPC = Performance Standard for Protective Coatings IMO = International Maritime Organization

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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