

Jotafloor PU VERSA

Product description

This is a two component solvent free, LEED compliant aromatic Polyurethane coating. It an elastomeric coating with superior abrasion, impact, chemical and slip resistance. It can be used an intermediate coat for UV exposed areas , and as a Topcoat for non-exposed areas .

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.

Preferred surface profile for Jotafloor PU VERSA is CSP2-CSP5 as per the ICRI guideline mentioned in 310.2R. 2013.

The substrate should be mechanically abraded to leave a clean, sound, stable base on to which Jotafloor system can be applied.

Preferred method of abrading the substrate is diamond disc grinding or dust free captive blasting. Both the equipment should be connected to an industrial vacuum machine for a dust free environment. Whichever surface preparation method is employed, ensure that the laitance (powdery material on the concrete surface) and loose particles are removed from the concrete surface.

After the surface preparation is completed, remove all the dust formed on the surface using an industrial vacuum machine.

Once surface preparation is completed it is necessary to use the following material for concrete repairs

Jotafloor Filler - Blow holes/Cracks up to 3 mm depth

Jotafloor Filler Plus - Blow holes / cracks from 3 mm to 10 mm depth

Slurry of Jotafloor SF PR 150 and Non -slip aggregate medium - Blow holes/cracks more than 10 mm depth.

For every 1 litre of Jotafloor SF PR 150 it is required to add 5 kgs of non - slip aggregate medium and then mix. The mixed quantity would be in solid form and should be applied on to the wet primer for adhesion. It is important to consult the Jotun Technical team for any repair above 10 mm deep.

Coating should not be relied upon to improve the tolerance's or flatness levels in the substrate. The substrate should be prepared to the appropriate tolerance prior to the application of coating. Tolerance's can be corrected, moreover this is a separate operation which must be completed before installing the coating.

Coating will generally follow the contours of the substrate and have the same tolerance's as the substrate to

Date of issue: 11 October 2022 Page: 1/7



which it is applied. Applicators are advised to check the tolerances of the substrate before they begin with the preparation.

Soluble salts removal

All cementitious substrate should be at least 28 days old and before the application, test the atmospheric conditions in the vicinity of the substrate for the dew formation according to ISO 8502-4.

The moisture content should not exceed 4%.

The Relative Humidity should not exceed 80%.

Minimum and maximum temperature should be 23°C and 40°C respectively.

Substrate temperature should be at least 3°C above the dew point.

The PH of the concrete should be 7-9.

The following restrictions must be observed.

- · Only apply the coating when the substrate temperature is at least 3°C 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 unfavorable for application or curing
- ·Do not apply the coating in high wind conditions

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Product mixing

Product mixing ratio (by volume)

Jotafloor PU VERSA Comp A 3.5 part(s)
Jotafloor PU VERSA Comp B 1 part(s)

Product mixing

NO PART MIXING.

Use a slow speed drill and mixing paddle.

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

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

Jotafloor PU VERSA is a two-component supplied as the base (Component A) and the hardener (Component B). Add the entire contents of the Component B to the base Component A and mechanically mix the two components for 2 minutes.

Date of issue: 11 October 2022 Page: 2/7



Induction time and Pot life

Paint temperature	23 °C
Induction time	2 min
Pot life	20 min

Thinner/Cleaning solvent

Cleaning solvent: Jotun Thinner No. 10

Thinner not to be used to dilute the product.

Application data

Roller application

Jotafloor PU VERSA should be applied only over approved primer.

Broadcast aggregates to the wet Jotafloor SF PR 150 or over the second coat of wet Jotafloor Sealer HS @ 0.5 kgs/sqm to provide anchorage.

Under no circumstances should Jotafloor PU VERSA be applied to the concrete substrate which has absorbed the sealer or primer fully. For highly porous concrete substrate an additional coat of sealer or primer will be required to seal the concrete substrate fully.

Apply first layer of Jotafloor PU VERSA using a roller at 4.8 sqm/litre to achieve a desired thickness of 200 microns DFT and to achieve a desired thickness of 300 microns apply it at 3.2 sqm/litre.

Leave it to dry for at least 24 hours at 23 °C.

Once dried apply second layer of Jotafloor PU VERSA at the desired thickness. After the application of second coat, using a dry roller a finishing coat can be applied to minimize the roller marks.

For UV exposed areas, it is mandatory to apply two coats of Jotafloor PU Topcoat or one coat of Jotafloor PU Ultra at the required thickness.

Other application tools

Manual application

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

Film thickness per coat

Typical recommended specification range

Dry film thickness 200 - 300 μm Wet film thickness 208 - 312 μm Theoretical spreading rate 4.8 - 3.2 m^2/l

Date of issue: 11 October 2022 Page: 3/7



Drying and Curing time

Substrate temperature	23 °C 40 °C
Surface (touch) dry	8 h 6 h
Walk-on-dry	24 h 15 h
Dry to over coat, minimum	24 h 15 h
Dry to over coat, maximum, atmospheric	36 h 24 h
Dried/cured for service	7 d 3 d

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Application in external areas & above 40 C consult with Jotun representative for guidance.

For maximum overcoating intervals, refer to the Application Guide (AG) for this 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.

Temperature below 23 degree C will make application more difficult and careful considerations should be given to storage of materials in cold conditions. Consult Jotun technical team for assistance in such cases.

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.

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 cleaning 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 23 °C 40 °C drying/curing

Date of issue: 11 October 2022 Page: 4/7



Itself2 d1 dPolyurethane2 d1 d

Other conditions that can affect drying / curing / over coating

Repair of coating system

Damages to the coating layers:

Prepare the area through sandpapering or grinding, followed by thorough cleaning/vacuuming. When the surface is clean and dry the coating may be over coated by itself or by another product, ref. original specification.

Always observe the maximum over coating intervals. If the maximum over coating interval is exceeded the surface should be carefully roughened in order to ensure good intercoat adhesion.

Damages exposing bare substrate:

Remove loose paint, grease or other contaminants by spot abrasive blasting, mechanical grinding, water and/or solvent washing. Feather edges and roughen the overlap zone of surrounding intact coating. Apply the coating system specified for repair.

Weld cutback

- Mixing paddle, MR3 type or equivalent
- · Slow speed drill
- · Paint rollers
- · Cleaning cloth
- Medium-sized flat bladed screwdriver (for opening tins)
- Jotun Thinner 17 for cleaning
- Soft bristled sweeping brush or broom
- Heavy duty wire brush
- · Diamond disc grinding machine
- Captive Blasting machine
- Industrial vacuum cleaner

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

Date of issue: 11 October 2022 Page: 5/7



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

 $\mu m = microns = micrometres$

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

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

 $\mathsf{UK} = \mathsf{United} \; \mathsf{Kingdom}$

EPA = Environmental Protection Agency

 ${\sf ISO = International\ Standards\ Organisation}$

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

Date of issue: 11 October 2022 Page: 6/7

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



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.