Jotafloor EP Coating

Product description

This is a two component amine cured solvent free epoxy coating. Well-rounded self-smoothening product epoxy coat with improved longevity, strength and performance while offering outstanding mechanical properties. Easier application with the option of direct to concrete as per Jotun's recommended guidelines. With Jotafloor Non-Slip Aggregates, enhanced slip resistance is possible.

Typical use

Designed for a wide range of floors with various levels of mechanical exposure. Recommended for workshops, carparks, garages, factories, laboratories, aircraft hangars and plant rooms where nonslip properties are required.

Approvals and certificates

Determination of Compressive Strength - ASTM C579 and BS 6319-2
Determination of Tensile Strength - ASTM C307
Determination of Flextural Strength - ASTM C580 and BS 6319-3
Determination of Taber Abrasion (1000 Cycles) - ASTM D4060:2010
Determination of Shore D Hardness - ASTM D2240:2005
Determination of Chemical Resistance - ASTM D543

All the tests were carried out at 23±2 °C and 60±5% RH (Relative Humidity). For more details refer test certificate.

Additional certificates and approvals may be available on request.

Colours

According to colour card

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	97 ± 2 %
Gloss level (GU 60 °)	ISO 2813	Gloss (Above 70)
Flash point	ISO 3679 Method 1	100 °C
Density	calculated	1.6 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	US EPA Method 24	30 g/l
EU	European Paint Directive 2004/42/CE	Calculated	68 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	68 g/l

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Region	Regulation	Test Standard	VOC Value

The provided data is typical for factory produced products, subject to slight variation depending on colour.

Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	200	-	500	µm
Wet film thickness	200	-	500	µm
Theoretical spreading rate	4.9	-	1.96	m²/l

Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces and Concrete	Clean, dry and undamaged compatible coating as per SSPC SP13/NACE NO 6 /ASTM D4258 -05 /ACI 503.6R-97/SSPC-TR 5/ICRI TECHNICAL GUIDELINE 03741/NACE02203	Clean, dry and undamaged compatible coating as per SSPC SP13/NACE NO 6 /ASTM D4258 -05 /ACI 503.6R-97/SSPC-TR 5/ICRI TECHNICAL GUIDELINE 03741/NACE02203

Below table is the surface profile reference for floor coating system:

Jotun coating system type/description	ICRI description	Total thickness (microns)	Recommended profile
Clear coating	Sealers	25 - 75	CSP 1 - 2
Thin films	Thin films	100 - 250	CSP 2 - 3
High-Build Coatings	High-Build Coatings	250 - 1000	CSP 3 - 5
Self-Levelling Coating	Self-Levelling Toppings	1250 - 3175	CSP 4 - 6
Screed coating	Polymer Overlays	3175 - 6350	CSP 5 - 9
Jotun repair solution - Jotafloor slurry	Concrete Overlays & Repair Materials	> 6350	CSP 5 - 10

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Laitance deposits are best removed by Planetary diamond disc grinder or by captive blasting followed by vacuum cleaning to remove dust debris. For old concrete, Jotun technical team should visit the site and appropriate surface preparation methodology should be recommended and that is to be followed.

Substrates should be at least 28 days old and have a moisture content not exceeding 4%.

Application

Application methods

The product can be applied by

The product shall be applied by one or more following methods:

Brushing
Corners and edges can be applied using brush.

Troweling
Pour the paint on to the primed surface, then spread and level to the required thickness using a metal trowel, pin screed trowel (leveler) or notched trowel.

Squeegeeing
Squeegees can be used for fast spreading of the paint on the floor.
Types of squeegee to be used including flat and serrated squeegee depending on wet film thickness.

Rolling
Before roller application, the roller shall be wetted by paint.
Once the paint is spread, roller application is followed to achieved desired finishing

Application directly on concrete:
Jotafloor EP Coating can be applied direct to concrete, please refer to the Application Guide for further details.

Conditions during application:

The concrete 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 concrete substrate moisture content should not exceed 4%.

The atmospheric Relative Humidity should not exceed 85%.

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

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

The pH of the concrete substrate should be 7-9.

The following restrictions must be observed:

- 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

This product should not be applied on to the surfaces which are known to, or likely to suffer from, rising dampness, potential osmosis problems or have a moisture content greater than 4%.

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Product mixing ratio (by volume)

Jotafloor EP Coating Comp A	4 part(s)
Jotafloor EP Coating Comp B	1 part(s)

Avoid mixing under direct sunlight. The temperature of the paint shall be 20-30°C when the paint is mixed.

Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.

A slow-speed mechanical mixing agitator or equivalent tool with the speed of 300-400 rpm, shall be used for mixing.

The individual components should be thoroughly stirred separately till homogenous.

The entire content of the Component B should be added to the Component A and mixed together for 1 minute till homogeneous.

Pour the full contents of the mixed material onto the floor immediately after mixing is completed.

Thinner/Cleaning solvent

Cleaning solvent : Jotun Thinner No. 17

Thinning is not normally required. Consult the local representative for advice during application if thinning is necessary.

Drying and Curing time

Substrate temperature	23 °C	40 °C
Surface (touch) dry	16 h	5.5 h
Walk-on-dry	18 h	6.5 h
Dry to over coat, minimum	24 h	8 h
Dry to over coat, maximum, atmospheric	48 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.

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.

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Induction time and Pot life

Paint temperature	23 °C
Pot life	25 min

Product compatibility

Previous coat:	Jotafloor Sealer or Jotafloor SF Primer E or Jotafloor Solvent Free Primer or Jotafloor Easyflow Primer HS
Subsequent coat:	Jotafloor PU Topcoat or Jotafloor Topcoat or Jotafloor Topcoat E

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor EP Coating Comp A	14.4	20
Jotafloor EP Coating Comp B	3.6	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

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

Jotafloor EP Coating Comp A	24 month(s)
Jotafloor EP Coating 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.

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

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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.

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