Technical Data Sheet

Jotafloor EPC 300 Plus

Product description

This is a two component amine cured high volume solid, low VOC epoxy coating. It is a self smoothing, easy to apply product, leaving a seamless surface. With Jotafloor Non Slip aggregates, enhanced slip resistance is possible. To be used as finish coat in atmospheric environments.

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.

For details about chemicals, refer to the 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	70 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	70 g/l

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

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

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.

Application

Application methods

The product can be applied by

Brush:	Recommended to paint corners and edges.
Roller:	Use small fibre pile 2 roller.
Trowel:	Notch trowel can be used for high thickness application.

Conditions during application :

The temperature of the substrate should be minimum 15 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the substrate should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.
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 relative humidity greater than 80% as measured in accordance with BS 8203 Appendix A.

Product mixing ratio (by volume)

Jotafloor EPC 300 Plus Comp A	4 part(s)
Jotafloor EPC 300 Plus Comp B	1 part(s)

No part mixing of this product.
Use a slow speed drill and mixing paddle.
The temperature of base and curing agent should be 18°C or higher when the paint is mixed.

Component A should be thoroughly stirred before Component B is mixed. Mix both the components using a slow speed drill and mixing paddle for 2 minutes. The entire content should be poured on to a third container and edges of the container should be scraped. Mix the material for an additional 20 seconds. The mixed material should be given an induction time of 3 minutes before application. Do not add solvent thinners at any time.

Thinner/Cleaning solvent

Cleaning solvent : Jotun Thinner No. 17

Thinning of the product is not recommended.

Drying and Curing time

Substrate temperature	15 °C	23 °C	40 °C
Surface (touch) dry	48 h	16 h	5.5 h
Walk-on-dry	48 h	18 h	6.5 h
Dry to over coat, minimum	48 h	24 h	8 h
Dry to over coat, maximum, atmospheric	72 h	48 h	24 h
Dried/cured for service	14 d	7 d	3 d

* Curing at temperatures lower than the recommended i.e. 15°C will result in blushing & blooming. Exposure to water during curing process will result in an adverse effect to the coating.

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.

Induction time and Pot life

Paint temperature	23 °C
Induction time	3 min, Recommended.
Pot life	25 min

Product compatibility

Previous coat:	Jotafloor Sealer or Jotafloor SF PR 150 or Jotafloor Sealer HS
Subsequent coat:	Jotafloor PU Topcoat or Jotafloor PU Topcoat HS or Jotafloor Topcoat or Jotafloor Topcoat E

Recommended Systems

System 1:

Jotafloor SF PR 150 / Jotafloor Sealer HS	Refer to product TDS
Jotafloor EPC 300 Plus	200 microns x 1 coat
Non-Slip Aggregates	0.50 - 1 kg per sqm
Jotafloor EPC 300 Plus	200 - 300 microns x 1 coat

System 2:

Jotafloor SF PR 150 / Jotafloor Sealer HS	Refer to product TDS
Jotafloor EPC 300 Plus	500 microns x 1 coat

System 3:

Jotafloor EPC 300 Plus	200 - 300 microns x 1 coat
Non-Slip Aggregates	0.50 - 1 kg per sqm
Jotafloor EPC 300 Plus	200 - 300 microns x 1 coat

System 4:

Jotafloor EPC 300 Plus	200 microns x 2 coats

For System 3 & 4 (Direct to concrete application)
Surface preparation to be done as per the mentioned recommended guidelines:

For the direct application of Jotafloor EPC 300 Plus on to the concrete, firstly a thorough inspection of the concrete should be carried out. All the repairs and imperfections should be carried out using Jotafloor Filler/ Jotafloor Filler Plus.

For porous concrete, a scrape coat of Jotafloor Filler or one or two coats of Jotafloor Sealer/ Jotafloor Sealer HS is recommended before the application of Jotafloor EPC 300 Plus.

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor EPC 300 Plus Comp A	14.4	20
Jotafloor EPC 300 Plus 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 EPC 300 Plus Comp A	12 month(s)
Jotafloor EPC 300 Plus Comp B	12 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.

Green Building Standards

The declared product contributes to Green Building Standard credits by meeting the following specific requirements

LEED®v4 (2013) / LEED®v4.1 (2020):
EQ credit: Low emitting materials
- VOC content for Concrete/Masonry Sealers (100 g/l) (CARB(SCM)2007) and emission less or equal to 0.5 mg/m³ (CDPH method 1.2).
MR credit: Building product disclosure and optimization
- Material Ingredients, Option 2: Material Ingredient Optimization, International Alternative Compliance Path - REACH optimization: Fully inventoried chemical ingredients to 100 ppm and not containing substances on the REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.
- Environmental Product Declarations. Product-specific Type III EPD (ISO 14025;21930, EN 15804).

BREEAM® International (2016)
- Hea 02: VOC exemplary emission CDPH method 1.2 (2017)) and the VOC content for Two-pack reactive performance coatings for specific end use such as floors (80g/L).
- Mat 01: Product-specific Type III EPD (ISO 14025;21930, EN 15804).

Additional certificates and approvals may be available on request.

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.