

Jotafloor EP UL

Product description

This is a three component amine cured high volume solid epoxy self smoothing & self priming underlay. It is robust high performance product specially designed to provide flat and leveled surface. It can be used as a concrete repair material up to a specified thickness.

Typical use

Designed as base coat for a wide range of floors exposed to extreme wear and tear. Recommended for steel plants, plant rooms, warehouses, factories, aircraft hangars, food and beverage plants and oil refineries.

Approvals and certificates

Determination of Compressive Strength - BS 6319-2

Tensile strength BS 6319-7

Flexural Strength BS 6319-3

Determination of Grain contamination Test

Additional certificates and approvals may be available on request.

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	98 ± 2 %
Flash point	ISO 3679 Method 1	57 °C
Density	calculated	1.89 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	51 g/l
EU	European Paint Directive 2004/42/CE	Calculated	51 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	51 g/l

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

Film thickness per coat

Typical recommended specification range

Dry film thickness	1500 - 4000 µm
Wet film thickness	1500 - 4000 µm
Theoretical spreading rate	0.65 - 0.24 m ² /l

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces and Concrete	Minimum 4 weeks curing. Moisture content maximum 4%. Prepare the surface by means of enclosed blast shot or diamond grinding and other appropriate means to abrade the surrounding concrete and to remove laitance. 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.

Note - For porous concrete, a scrape coat of Jotafloor EP UL **OR** one coat of Jotafloor Sealer **OR** Jotafloor SF PR 150 primer is recommended before the application of Jotafloor EP UL.

Application

Application methods

The product can be applied by

Trowel: Nylon or steel trowel.

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 EP UL Comp A	1.9 part(s)
Jotafloor EP UL Comp B	1 part(s)
Jotafloor EP UL Comp C	3.1 part(s)

The pre-weighed packs of the components - base, hardener and aggregate has to be mixed using a slow speed agitator at a speed of 300-400 rpm and should be mixed for 2-3 minutes

Component A should be thoroughly stirred before mixing. Then Component B should be added to the Component A and mixed for 30 seconds until an even color, texture and homogeneous mix is achieved. Then Component C should be gradually added and mixing should be carried on for another 2-3 minutes until a homogeneous material is obtained. Component C should be added gradually during mixing to avoid the formation of any lumps.

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	14 h	5 h
Walk-on-dry	48 h	16 h	6 h
Dry to over coat, minimum	48 h	18 h	8 h
Dry to over coat, maximum, atmospheric	72 h	48 h	48 h
Dried/cured for service	7 d	7 d	3 d

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.

Induction time and Pot life

Paint temperature	23 °C
Induction time	3 min. <small>Recommended.</small>
Pot life	30 min.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat:	Jotafloor Sealer or Jotafloor SF PR150 or Jotafloor EP UL
Subsequent coat:	Jotafloor EPC SL or Jotafloor EPSL or Jotafloor EPC 300 Plus or Jotafloor Topcoat E

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor EP UL Comp A	5.7	20
Jotafloor EP UL Comp B	3	3
Jotafloor EP UL Comp C	9.3	25

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 UL Comp A	12 month(s)
Jotafloor EP UL Comp B	12 month(s)
Jotafloor EP UL Comp C	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

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.