

Jotafloor EP SL

Product description

This is a two component solvent free amine cured epoxy coating. It is a high performance product. It is a self levelling product leaving a seamless surface. It is abrasion, impact, chemical and slip resistant. To be used as midcoat/topcoat as part of a complete system in atmospheric environments. Suitable on approved primers on concrete substrates.

Typical use

Suitable for a wide range of floors with various levels of mechanical and chemical exposure. Specially designed for industrial floors, laboratories, hospitals, food and beverage plants, kitchens, high tech manufacturing facilities, dairies, warehouses, loading & unloading areas, factories and hangars. May be used as a scrape coat to cover minor undulations on the surface.

Approvals and certificates

Determination of Compressive Strength - ASTM C579
Determination of Tensile Strength - ASTM C307
Determination of Flexural Strength - ASTM C580
Determination of Shore 'A' hardness - ASTM D2240 :2005
Determination of Shore 'D' Hardness - ASTM D 2240:2005

All the tests were carried out at 23±2 °C and 50±5% RH (Relative Humidity). For more details refer test certificate.

Additional certificates and approvals may be available on request.

Colours

selected range of colours

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	98 ± 2 %
Gloss level (GU 60 °)	ISO 2813	gloss (70-85)
Flash point	ISO 3679 Method 1	100 °C
Density	calculated	1.7 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	US EPA Method 24	75 g/l
EU	European Paint Directive 2004/42/CE	Calculated	87 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	87 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	1500 - 5000 µm
Wet film thickness	1500 - 5000 µm
Theoretical spreading rate	0.66 - 0.2 m ² /l

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

Coverage on Non slip aggregate would reduce considerably.

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Concrete and Coated surfaces	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

Trowel: Recommended

To avoid air bubbles, it is very important to pierce the coating with a spiked roller when desired film thickness is achieved.

While spike rolling, 1st pass should be given like it will assist the flow of the material & will remove trowel marks. subsequent pass should be given with light pressure to bring the resin on top.

Conditions during application :

The temperature of the substrate should be minimum 10 °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 SL Comp A	4.7 part(s)
Jotafloor EP SL Comp B (40)	1 part(s)

No part mixing of this product.

Use a slow speed drill and mixing paddle.

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

The temperature of the base and curing agent is recommended to 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 more 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

Thinner not to be used to dilute the product.

Drying and Curing time

Substrate temperature	23 °C	40 °C
Surface (touch) dry	14 h	8 h
Walk-on-dry	20 h	14 h
Dry to over coat, minimum	24 h	14 h
Dry to over coat, maximum, atmospheric	3 d	48 h
Dried/cured for service	7 d	3 d

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	20 min

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	80 °C	100 °C

Intermittent exposure to wet heat up to +80° C with occasional steam cleaning*

*It is mandatory that the minimum DFT must be above 3 MM.

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Product compatibility

Previous coat: Jotafloor Sealer or Jotafloor Solvent Free Primer or Jotafloor SF PR 150

Subsequent coat: Jotafloor Topcoat E or Jotafloor PU Topcoat

For better adhesion property, Jotafloor EP SL needs to be sanded slightly with sand paper before subsequent coat.

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor EP SL Comp A	14	20
Jotafloor EP SL Comp B (40)	3	3

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 SL Comp A	12 month(s)
Jotafloor EP SL Comp B (40)	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.

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.