

Jotafloor PU Flex

Product description

This is a two component aromatic isocyanate cured polyurethane coating. It is a high performance, solvent free product. It is flexible, abrasion, impact, chemical and slip resistant. It is specially designed to be used as a waterproof membrane. If enhanced slip resistance is required Jotafloor Non Slip can be used in the system. To be used as mid coat 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 as a part of the traffic deck system for heavy duty traffic, for areas such as ramps, car parks, parking bays, pedestrian walkways, roof decks and industrial floors. Recommended for cold stores, laboratories, hospitals, food and beverage plants, kitchens, high tech manufacturing facilities, dairies, warehouses, factories and hangars.

Approvals and certificates

Determination of Tear Strength - ASTM D 624:98
Determination of Impact Resistance - ASTM D 2794:93
Determination of Abrasion Resistance - ASTM C957
Determination of Adhesion Strength - ASTM D 4541 1985
Determination of Microbiological Resistance - ASTM D 2547
Determination of Elongation - ASTM D 412
Determination of Crack Bridgeability - ASTM C1305 M-16

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	1.26 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	4 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.

Minor colour variation may occur with lighter colour shades.

Film thickness per coat

Typical recommended specification range

Dry film thickness	500 - 800 µm
Wet film thickness	510 - 816 µm
Theoretical spreading rate	1.96 - 1.22 m ² /l

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

Roller: Squeegee followed by roller application

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.

A damp proof membrane is essential to prevent rising moisture as it may cause the concrete to become saturated, and negative pressures to adversely affect the bond with Jotafloor product range.

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

Product mixing ratio (by volume)

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

NO PART MIXING.

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.

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

Thinner/Cleaning solvent

Cleaning solvent : Jotun Thinner No. 10

Thinner not to be used to dilute the product.

Drying and Curing time

Substrate temperature	23 °C	40 °C
Surface (touch) dry	10 h	3 h
Walk-on-dry	24 h	8 h
Dry to over coat, minimum	24 h	8 h
Dry to over coat, maximum, atmospheric	36 h	16 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.

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
Pot life 20 min

Product compatibility

Previous coat: Jotafloor Sealer or Jotafloor SF PR 150

Subsequent coat: Jotafloor PU Topcoat or Jotafloor PU VERSA or Jotafloor PU Ultra

For Jotafloor PU Topcoat, consult your local Jotun sales representative.

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor PU Flex Comp A	7.8	10
Jotafloor PU Flex Comp B	2.2	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, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Jotafloor PU Flex Comp B should be stored between 10°C to 35°C as it tends to crystallise when stored below 10°C.

Shelf life at 23 °C

Jotafloor PU Flex Comp A 12 month(s)
Jotafloor PU Flex 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.

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 antifouling 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.