

Jotafloor PU Universal

Product description

This is a two component aromatic isocyanate cured polyurethane coating. It is a high performance, solvent free product. It is a self levelling product leaving a seamless surface. 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 and dairies. Recommended for 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 D 4060:01
 Determination of Heat Resistance - ASTM D1204:84
 Determination of Chemical Resistance - ASTM 1308:02
 Determination of Resistance to Aviation fuel - ASTM D 543
 Determination of Resistance to Skydrol - ASTM D 543
 Determination of Adhesion Strength - ASTM D 4541 1985
 Determination of Microbiological Resistance - ASTM D 2547
 Determination of Water Penetration - BS EN 12390 Part 8:2000
 Determination of Cold Flexibility - ASTM D 522
 Determination of Elongation - ASTM D 638:02a
 Determination of Crack Bridgeability - ASTM C 836:95

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	100 %
Gloss level (GU 60 °)	ISO 2813	gloss (70-85)
Flash point	ISO 3679 Method 1	100 °C
VOC-US/Hong Kong	US EPA method 24 (tested)	9 g/l

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

All data is valid for mixed paint.

Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	500 - 4000 µm
Wet film thickness	500 - 4000 µm
Theoretical spreading rate	2 - 0,2 m ² /l

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

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 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.

Product mixing ratio (by volume)

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.

Jotafloor PU Universal Comp A	4,4 part(s)
Jotafloor Universal Comp B	1 part(s)

Thinner/Cleaning solvent

Cleaning solvent: Jotun Thinner No. 10

Drying and Curing time

Substrate temperature	15 °C	23 °C	40 °C
Surface (touch) dry	6 h	4 h	2 h
Walk-on-dry	24 h	15 h	6 h
Dry to over coat, minimum	24 h	15 h	6 h
Dry to over coat, maximum, atmospheric	72 h	36 h	24 h
Dried/cured for service	10 d	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 shortest time allowed 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.

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 PR 150 or Jotafloor Solvent Free Primer

Subsequent coat: Jotafloor Topcoat or Jotafloor Topcoat E or Jotafloor PU Topcoat

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor PU Universal Comp A	16.3	20
Jotafloor Universal Comp B	3.7	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, 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 PU Universal Comp A	12 month(s)
Jotafloor Universal 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 antifoulings may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

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.