

Jotafloor PU Topcoat HS

Product description

This is a two component high volume solid, LEED compliant and low VOC, isocyanate cured polyurethane coating. It is a high performance, non yellowing product. It has excellent gloss and colour retention. It has good chemical, abrasion and impact resistance. If enhanced slip resistance is required Jotafloor Non Slip can be used in the system. Suitable on approved primers on concrete substrates.

Typical use

Designed for a wide range of floors with various levels of mechanical and chemical exposure. Specially designed for areas exposed to direct sunlight where gloss and colour stability is desired. Recommended as a topcoat as part of the car parks, parking bays, pedestrian walkways, industrial floors, drive ways, ramps and traffic deck systems.

Approvals and certificates

Determination of Impact Resistance : ASTM D 2794_93
Determination of Abrasion resistance : ASTM D 4060 -2010
Determination of Bond Strength : ASTM 4541-2002
Determination of Chemical resistance : ASTM D 543

Additional certificates and approvals may be available on request.

Colours

As per colour card.

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	91 ± 2 %
Density	calculated	1.4 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	83.6 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.

Film thickness per coat

Typical recommended specification range

Dry film thickness	72 - 108 μm
Wet film thickness	80 - 120 μm
Theoretical spreading rate	11.2 - 7.5 m ² /l

The actual spreading rate per coat may vary depending on the size of the Jotafloor Non Slip Aggregates used.

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
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

Application

Application methods

The product can be applied by

Brush: Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

Roller: Use small fibre pile 2 roller. Care must be taken to achieve the specified dry film thickness.

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)

Jotafloor PU Topcoat HS Comp A 7.5 part(s)
Jotafloor PU Topcoat HS Comp B 2.5 part(s)

No part mixing of this product.
Use a slow speed drill and mixing paddle.

Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.

Mixing should be carried out using a heavy duty, slow-speed drill with appropriate mixing paddle attachment. The individual components should be thoroughly stirred to disperse any settlement, then the Comp A and Comp B packs should be mixed together. The entire contents of the hardener (B) container should be added to the base (A) and mixed together for two minutes until a homogeneous mix is obtained. When a homogenous state has been achieved split the mixed paint in to two separate containers and continue mixing both portions of the mix for a further 2 minutes.

Thinner/Cleaning solvent

Cleaning solvent: Jotun Thinner No. 10

Drying and Curing time

Substrate temperature	23 °C	40 °C
Surface (touch) dry	10 h	
Walk-on-dry	12 h	
Dry to over coat, minimum	12 h	
Dried/cured for service	7 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.

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
Pot life	30 minutes

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 Filler or Jotafloor Sealer or Jotafloor Solvent Free Primer or Jotafloor SF PR 150

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotafloor PU Topcoat HS Comp A	7.5	10
Jotafloor PU Topcoat HS Comp B	2.5	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.

This product must be stored below 30 °C.

Shelf life at 23 °C

Jotafloor PU Topcoat HS Comp A	6 month(s)
Jotafloor PU Topcoat HS Comp B	6 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

This product contributes to Green Building Standard credits by meeting the following specific requirements:

LEED®v4 (2013)

SS Credit: Heat Island Reduction

Selected colour(s) of this product meets the requirements of:

- SR of at least 0.33 for Non-roof structures
- SRI of at least 39 for steep-sloped roof
- SRI of at least 39 for parking roof covering
- SRI of at least 82 for Low-sloped roof

LEED® (2009)

IEQ Credit 4.2: The VOC requirements of SCAQMD Rule 1113, 2004.

SS credit 7.1: Heat Island Effect - Nonroof

Hardscape, Roof structures and Parking roof covering. Selected colour(s) have SRI of at least 29.

SS credit 7.2: Heat Island Effect - Roof

Selected colour(s) have SRI of at least 29 for Steep-sloped roof and 78 for Low-sloped roof.

BREEAM® International (2013)

Hea 02: VOC content for Two-pack performance Coatings SB (500 g/l) (EU Directive 2004/42/CE).

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 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.
