Technical Data Sheet

Jotafloor PU Crete

Product description

This product is seamless, self smoothing, solvent free polyurethane based hybrid antimicrobial flooring system. It has high impact resistance, sustains abrasion and resistant to many chemicals being used in day to day life.

Typical use

Designed for use in areas like food & beverage factories, kitchens, bakeries & confectioneries, food processing plants, pharmaceuticals & textile industries, laboratories & hospitals, chemical plants and cold storage.

Approvals and certificates

- HACCP Accreditation
- Determination of Compressive Strength - ASTM C 579/ BS EN 13892 -2
- Determination of Tensile Strength - ASTM C 307 / BS 6319 – Part 7
- Determination of Flexural Strength - ASTM C 580 /BS 6319 – Part 3
- Determination of Flexural Strength - BS EN 13892
- Determination of Impact Resistance -ASTM D 2794
- Determination of Adhesion Strength -ASTM D 4541
- Determination of Abrasion Resistance - ASTM D 4060
- Determination of Volatile Organic Content - BS EN ISO 11890 -2
- Determination of Antimicrobial Efficacy - JIS Z 2801: 2012
- Determination of Chemical Resistance - ASTM D 1308
- Determination of Slip Resistance – BS7976 -2 :2002
- Determination of Shore D Hardness – ASTM D 2240
- Determination of Water permeability – BS EN 12390- 8 : 2009 / BS EN 12004-4
- Determination of Water Vapour transmission – ASTM E 96 -16
- Determination of Coefficient of Thermal Expansion – ASTM C531
- Resistance to Thermal Shock – ASTM C884
- Reaction to Fire – EN13501: Part 1

Performance data is a typical data & based upon controlled laboratory conditions. It may vary on site based on actual site conditions.

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	matt (0-35)
Flash point	ISO 3679 Method 1	100 °C
Density	calculated	1.935 kg/l

This Technical Data Sheet supersedes those previously issued.

The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	17 g/l
EU	European Paint Directive 2004/42/CE	Calculated	13 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	13 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	4000 - 6000	µm
Wet film thickness	4000 - 6000	µm
Theoretical spreading rate	0.25 - 0.16	m²/l

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

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 scarifying 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.

For groove cutting, edge termination, expansion & control joints refer Product Application methodology.

Application

This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

Application methods

The product can be applied by

Roller: Spike Roller (15 mm)

Trowel: Notch Trowel

Conditions during application :

The temperature of the substrate and ambience should be minimum 15 °C and maximum 27 °C & at least 3 °C above the dew point of the air, measured in the vicinity of the substrate., during appication and curing process. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the substrate should not exceed 8% (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.

All cementitious substrates should be at least 7 days old and have a moisture content not exceeding 8%.

A damp/ moisture proof membrane is essential to prevent the rising moisture as it may cause the concrete to become saturated and the negative pressures will adversely affect the bond to the Jotafloor PU Crete flooring. Jotafloor PU Crete flooring system is impermeable to liquids but must not be used as a substitute for a membrane or vapor barrier.

The recommended temperature of all the four components at the time of mixing should be 18°C to 23°C.

Prior to the application verify there is no presence of water in liquid form nor raising dampness and it is on dry conditions.

Product mixing ratio (by volume)

Jotafloor PU Crete Comp A	2.49 part(s)
Jotafloor PU Crete Comp B	2.41 part(s)
Jotafloor PU Crete Comp C	5.3 part(s)
Jotafloor PU Crete Comp D	0.43 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.

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**
Surface (touch) dry	8 h
Walk-on-dry	12 h
Dry to over coat, minimum	12 h
Dry to over coat, maximum, atmospheric	48 h
Dried/cured for service	72 h*

This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

* Light Traffic - 24 hours / Full Traffic - 72 hours
Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product. Time intervals given are approximate & based on controlled laboratory results. It varies based on ambient & substrate condition, particularly temperature & humidity.

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**
Pot life	10 min

Product compatibility

Previous coat:	Jotafloor PU Crete, Scratch Coat
Subsequent coat:	Jotafloor PU Crete

Packaging (typical)

	Volume (litres)	**Size of containers (litres)**
Jotafloor PU Crete Comp A	2.49	3
Jotafloor PU Crete Comp B	2.41	3
Jotafloor PU Crete Comp C	5.30	6
Jotafloor PU Crete Comp D	0.43	0.5

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, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Ensure that Component C is always kept on a raised platform so that it is not in direct contact with the floor.

Shelf life at 23 °C

This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

Jotafloor PU Crete Comp A	6 month(s)
Jotafloor PU Crete Comp B	6 month(s)
Jotafloor PU Crete Comp C	6 month(s)
Jotafloor PU Crete Comp D	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

The declared product contributes to Green Building Standard credits by meeting the following specific requirements

LEED®v4 (2013) / LEED®v4 .1 (2019):
EQ credit: Low emitting materials
- VOC content for Floor Coatings (100 g/L) (CARB(SCM)2007) and emission less or equal to 0.5 mg/m3 (CDPH method 1.2).
MR credit: Building product disclosure and optimization
- Material Ingredients, Option 2: Material Ingredient Optimization, International Alternative Compliance Path - REACH optimization: Fully inventoried chemical ingredients to 100 ppm and not containing substances on the REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.
- Environmental Product Declarations. Product-specific Type III EPD (ISO 14025;21930, EN 15804).

BREEAM® International (2016)
- Hea 02: VOC exemplary emission CDPH method 1.2 (2017)) and the VOC content for Two-pack reactive performance coatings for specific end use such as floors (80g/L).
- Mat 01: Product-specific Type III EPD (ISO 14025;21930, EN 15804).

BREEAM® International (2013)
- Hea 02: VOC content for Two-pack performance coatings solvent based, for specific end use such as floors (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

This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

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.