Jotafloor Glass Flake HS

Product description

This is a two component amine cured, glass flake reinforced, abrasion resistant epoxy coating. It is a high solids, high build product. It is a high performance product. It is specially designed as an abrasive and impact resistant coating for areas with extreme wear and tear. If enhanced slip resistance is required Jotafloor Non Slip can be used in the system. Can be used as mid coat or finish coat in atmospheric environments. Specially suited for properly prepared 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 a complete system for heavy duty traffic, such as ramps, car parks, parking bays, pedestrian walkways and industrial floors. Recommended for car parks, warehouses, garages, dairies, factories, laboratories, aircraft hangars, food, beverage and plant rooms.

Approvals and certificates

Determination of Compressive Strength - ASTM C579 : 62.2 N/mm²
Determination of Flextural Strength - ASTM C580 : 53 N/mm²
Determination of Tensile Strength - ASTM C307 : 21 N/mm²
Determination of Shore 'D' Hardness - ASTM D 2240:2005 : 74

Additional certificates and approvals may be available on request.

Colours

limited number

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	97 ± 2 %
Gloss level (GU 60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	30 °C
Density	calculated	1.4 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	US EPA Method 24	60 g/l
EU	European Paint Directive 2004/42/CE	Calculated	142 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	142 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	300	-	400	µm
Wet film thickness	309	-	412	µm
Theoretical spreading rate	3.23	-	2.42	m²/l

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.
All cementitious substrates should be at least 28 days old and have a moisture content not exceeding 5%.

Application

Application methods

The product can be applied by

Spray:	Use airless spray.
Roller:	Use a suitable roller.Use small fibre pile 2 roller. However when using roller application care must be taken to apply sufficient material in order 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.

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 Glass Flake HS Comp A	3 part(s)
Jotafloor Glass Flake HS Comp B	1 part(s)

No part mixing of this product.

The temperature of the base and curing agent is recommended to be 18 C or higher when the paint is mixed.

Thinner/Cleaning solvent

Cleaning solvent : Jotun Thinner No. 17

Thinning of the product is not recommended.

Guiding data for airless spray

Nozzle tip (inch/1000):	25-43
Pressure at nozzle (minimum):	150 bar/2100 psi

Drying and Curing time

Substrate temperature	23 °C	40 °C
Surface (touch) dry	6 h	3 h
Walk-on-dry	14 h	5 h
Dry to over coat, minimum	14 h	5 h
Dry to over coat, maximum, atmospheric	3 d	2 d
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.

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	2 min
Pot life	45 min

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	60 °C	100 °C

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

*It is mandatory to use Jotafloor Screed at 4-6 mm DFT as an undercoat.

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 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 Glass Flake HS Comp A	15	20
Jotafloor Glass Flake HS Comp B	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, 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 Glass Flake HS Comp A	48 month(s)
Jotafloor Glass Flake HS Comp B	48 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.