

## Jotafloor Screed

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### Product description

This is a three component polyamide cured solvent free epoxy screed. It is a robust high performance product. It is an extreme high build, trowel applied product. It is specially designed as a superior abrasive and impact resistant screed for areas with extreme wear and tear. Can be used as mid coat or finish coat. Suitable on approved primers on concrete substrates.

### Scope

The Application Guide offers product details and recommended practices for the use of the product.

The data and information provided are not definite requirements. They are guidelines to assist with efficient and safe use, and optimum service of the product. Adherence to the guidelines does not relieve the applicator of responsibility for ensuring that the work meets specification requirements. Jotuns liability is in accordance with general product liability rules.

The Application Guide (AG) must be read in conjunction with the relevant specification, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all the products used as part of the coating system.

### Referred standards

Reference is generally made to ASTM and SSPC Standards. When using standards from other regions it is recommended to reference only one corresponding standard for the substrate being treated.

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### Acceptable environmental conditions - before and during application

The concrete substrate should be at least 28 days old and should have a minimum compressive strength of 25 Mpa or 3626 psi. The pull of strength of the substrate should be 1.5 mpa or 218 psi. Before the application, test the atmospheric conditions in the vicinity of the substrate for the dew formation according to ISO 8502-4.

The moisture content should not exceed 4%.

The Relative Humidity should not exceed 80%.

Minimum and maximum temperature should be 23°C and 40°C respectively.

Substrate temperature should be at least 3°C above the dew point.

The PH of the concrete should be 7-9.

The following restrictions must be observed.

- Only apply the coating when the substrate temperature is at least 3°C above the dew point
  - Do not apply the coating if the substrate is wet or likely to become wet
  - Do not apply the coating if the weather is clearly deteriorating or unfavorable for application or curing
  - Do not apply the coating in high wind conditions.
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### Surface preparation

The required quality of surface preparation can vary depending on the area of use, expected durability and if applicable, project specification.

Preferred surface profile for Jotafloor Screed is CSP3-CSP6 as per the ICRI guideline mentioned in 310.2R.2013.

The substrate should be mechanically abraded to leave a clean, sound, stable base on to which Jotafloor system can be applied.

Preferred method of abrading the substrate is dust free captive blasting or Scarifying. Both the equipment should be connected to an industrial vacuum machine for a dust free environment. Whichever surface preparation method is employed, ensure that the laitance (powdery material on the concrete surface) and loose particles are removed from the concrete surface.

After the surface preparation is completed, remove all the dust formed on the surface an industrial vacuum machine. Once surface preparation is completed it is necessary to use the following material for concrete repairs

Jotafloor Filler – Blow holes/Cracks up to 3 mm depth

Jotafloor Filler Plus – Blow holes / cracks from 3 mm to 10 mm depth

For Blow holes/cracks more than 10 mm depth the repairs can be done with Jotafloor screed itself.

Coating should not be relied upon to improve the tolerance's or flatness levels in the substrate. The substrate should be prepared to the appropriate tolerance prior to the application of coating. Tolerance's can be corrected but this is a separate operation which must be completed before installing the coating.

Coating will generally follow the contours of the substrate and have the same tolerance's as the substrate to which it is applied. Applicators are advised to check the tolerances of the substrate before they begin with the preparation.

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## Product mixing

### Product mixing ratio (by volume)

Jotafloor Screed Comp A	1.3 part(s)
Jotafloor Screed Comp B	0.65 part(s)
Jotafloor Screed Comp C	9.43

### Induction time and Pot life

#### Paint temperature

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Jotafloor Screed Comp A + Jotafloor Screed Comp B : 25 min

Jotafloor Screed Comp A + Jotafloor Screed Comp B + Jotafloor Screed Comp C : 40 min

### Thinner/Cleaning solvent

Cleaning solvent : Jotun Thinner No. 17  
Thinning of the product is not recommended.

### Application data

Prepared substrates should be primed using the Jotafloor Screed Primer. Once mixed, the primer should be applied immediately to the Prepared substrate using stiff brushes and/or rollers @ 150 microns W.F.T. The primer should be well 'rubbed' into the substrate to ensure full coverage.

Fix the screed rails parallel to each other to form a corridor in which the material is to be laid. The mixed Jotafloor Screed should then be placed on to the wet, tacky primer and spread across the area with a steel trowel between the screed rails. Spread Jotafloor screed at 0.25 sqm/litre to achieve a dft of 4000 microns and 0.2 sqm/litre to achieve a dft of 5000 microns.

The material should be levelled to the required thickness with a straight edge using the screed rails as a level guide ensuring the material has been fully compacted. This can also be done using a power float.

Once levelled and compacted, the surface of the material can be closed using a wooden trowel and finished with a steel trowel. During the application it is advisable to wipe the tools that are being used with a cloth soaked with Jotun Thinner 17; this will help to stop the material sticking to the tools and eliminate dragging the material.

Upon curing Jotafloor screed can be top coated with any Jotafloor products.

### Ventilation

Sufficient ventilation is very important to ensure proper drying/curing of the film.

## Repair of coating system

### Damages to the coating layers:

Prepare the area through sandpapering or grinding, followed by thorough cleaning/vacuuming. When the surface is clean and dry the coating may be over coated by itself or by another product, ref. original specification.

Always observe the maximum over coating intervals. If the maximum over coating interval is exceeded the surface should be carefully roughened in order to ensure good intercoat adhesion.

### Damages exposing bare substrate:

Remove all rust, loose paint, grease or other contaminants by spot blasting, mechanical grinding, water and/or solvent washing. Feather edges and roughen the overlap zone of surrounding intact coating. Apply the coating system specified for repair.

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## Film thickness per coat

### Typical recommended specification range

Dry film thickness	4000 - 6000 µm
Wet film thickness	4000 - 6000 µm
Theoretical spreading rate	0.2 - 0.17 m <sup>2</sup> /l

## Drying and Curing time

<b>Substrate temperature</b>	<b>23 °C</b>	<b>40 °C</b>
Surface (touch) dry	6 h	3 h
Walk-on-dry	10 h	4 h
Dry to over coat, minimum	10 h	4 h
Dry to over coat, maximum, atmospheric	96 h	48 h
Dried/cured for service	7 d	4 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this 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.

Temperature below 23 degree C will make application more difficult and careful considerations should be given to storage of materials in cold conditions. Consult Jotun technical team for assistance in such cases.

## Maximum over coating intervals

### Areas for atmospheric exposure

<b>Average temperature during drying/curing</b>	<b>23 °C</b>	<b>40 °C</b>
epoxy	2 d	1 d
polyurethane	2 d	1 d

Maximum time before thorough surface preparation is required. The surface must be clean and dry and suitable for over coating. Inspect the surface for chalking and other contamination and if present, remove with an alkaline detergent. Agitate the surface to activate the cleaner and before it dries, wash the treated area by low pressure water jetting to Wa 1 (ISO 8501-4) using fresh water.

If maximum over coating interval is exceeded the surface should in addition be carefully roughened to ensure good inter coat adhesion.

## Equipment List

- A heavy duty slow speed drill
- Mixing paddle, MR3 type or equivalent
- Forced action screed mixer if available
- Industrial vacuum cleaner
- Paint brush, 50mm wide is the most suitable, or paint roller for the application of primer
- 2 steel or wooden screed rails, size, 6mm x 20mm x 2m, straight edge, wooden or aluminum
- Steel trowel
- Wooden or plastic float
- Medium-sized flat bladed screwdriver (for opening tins)
- Sharp knife (for opening bag of aggregate)
- Cleaning cloth
- Jotun Thinner 17
- Soft bristled sweeping brush or broom.

## Quality assurance

The following information is the minimum required. The specification may have additional requirements.

- Confirm that all welding and other metal work has been completed before commencing pre-treatment and surface preparation
- Confirm that installed ventilation is balanced and has the capacity to deliver and maintain the RAQ
- Confirm that the required surface preparation standard has been achieved and is held prior to coating application
- Confirm that the climatic conditions are within recommendations in the AG, and are held during the application
- Confirm that the required number of stripe coats have been applied
- Confirm that each coat meets the DFT requirements in the specification
- Confirm that the coating has not been adversely affected by rain or other factors during curing
- Observe that adequate coverage has been achieved on corners, crevices, edges and surfaces where the spray gun cannot be positioned so that its spray impinges on the surface at 90° angle
- Observe that the coating is free from defects, discontinuities, insects, abrasive media and other contamination
- Observe that the coating is free from misses, sags, runs, wrinkles, fat edges, mud cracking, blistering, obvious pinholes, excessive dry spray, heavy brush marks and excessive film build
- Observe that the uniformity and colour are satisfactory

All noted defects shall be fully repaired to conform to the coating specification.

### 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.

For further advice please contact your local Jotun office.

### 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.

### Accuracy of information

Always refer to and use the current (last issued) version of the TDS, SDS and if available, the AG for this product. Always refer to and use the current (last issued) version of all International and Local Authority Standards referred to in the TDS, AG & SDS for this product.

### Colour variation

Some coatings used as the final coat may fade and chalk in time when exposed to sunlight and weathering effects. Coatings designed for high temperature service can undergo colour changes without affecting performance. Some slight colour variation can occur from batch to batch. When long term colour and gloss retention is required, please seek advice from your local Jotun office for assistance in selection of the most suitable top coat for the exposure conditions and durability requirements.

### Reference to related documents

The Application Guide (AG) must be read in conjunction with the relevant specification, Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for all the products used as part of the coating system.

When applicable, refer to the separate application procedure for Jotun products that are approved to classification societies such as PSPC, IMO, SSPC etc.

## Symbols and abbreviations

min = minutes

h = hours

d = days

°C = degree Celsius

° = unit of angle

µm = microns = micrometres

g/l = grams per litre

g/kg = grams per kilogram

m<sup>2</sup>/l = square metres per litre

mg/m<sup>2</sup> = milligrams per square metre

psi = unit of pressure, pounds/inch<sup>2</sup>

Bar = unit of pressure

RH = Relative humidity (% RH)

UV = Ultraviolet

DFT = dry film thickness

WFT = wet film thickness

TDS = Technical Data Sheet

AG = Application Guide

SDS = Safety Data Sheet

VOC = Volatile Organic Compound

MCI = Jotun Multi Colour Industry (tinted colour)

RAQ = Required air quantity

PPE = Personal Protective Equipment

EU = European Union

UK = United Kingdom

EPA = Environmental Protection Agency

ISO = International Standards Organisation

ASTM = American Society of Testing and Materials

AS/NZS = Australian/New Zealand Standards

NACE = National Association of Corrosion Engineers

SSPC = The Society for Protective Coatings

PSPC = Performance Standard for Protective Coatings

IMO = International Maritime Organization

## 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.

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If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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