

# Technical Data

## JOTAFLOOR SCREED



### Product description

Jotafloor Screed is a high performance, trowel applied, three component, solvent free epoxy floor coating offering exceptional strength characteristics, resistance to a range of chemicals, and superior abrasion/wear properties. Generally applied at 5 mm thickness and above. (Seek advice from Jotun Technical Department)

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### Recommended use

The high strength impervious finish makes Jotafloor Screed ideal for heavy industrial areas such as:

- ÿ Steelworks
- ÿ Engineering plants
- ÿ Chemical production areas
- ÿ Oil refineries
- ÿ Dairies

Also ideally suited where heavy traffic is expected or a durable non-slip finish is required. Jotafloor Screed may be overcoated with Jotafloor Topcoat or Jotafloor Coating if different colours are required. Jotafloor Screed exhibits very high bond strength and adhesion characteristics making it an ideal repair material for concrete and floor joint edges.

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### Film thickness and spreading rate

|  | Minimum | Maximum | Typical |
|--|---------|---------|---------|
| Film thickness, dry (µm)                       | 4000    | 6000    | 5000    |
| Film thickness, wet (µm)                       | 4000    | 6000    | 5000    |
| Theoretical spreading rate (m <sup>2</sup> /l) | 0,25    | 0,17    | 0,2     |

### Comments

Jotafloor Screed can be applied at higher thicknesses to suit specific requirements. Request further information from Jotun Technical Department.

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### Physical properties

|                     |  |
|---------------------|--|
| Colour              | Colour of the graded aggregate   |
| Solids (vol %)*     | 98 ±   |
| Flash point         | >100°C (Setaflash)   |
| Water resistance    | Excellent  |
| Abrasion resistance | Excellent  |
| Solvent resistance  | Excellent  |
| Chemical resistance | Excellent Check chemical resistance values on Jotafloor chemical resistance chart. |

\*Measured according to ISO 3233:1998 (E)

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## Surface preparation

All concrete damaged by exposure to chemicals, contaminated by any substance or unsound in any way, shall be removed to expose sound concrete.

### Other surfaces

Concrete surface preparation by using dust free captive blasting units, grinding equipment, sand blasting or high pressure water jetting is critical to achieving the right surface profile prior to paint application. Contact your local Jotun office for more information.

The coating may be used on other substrates. Please contact your local Jotun office for more information.

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## Condition during application

The temperature of the substrate should be minimum 12°C (preferably 15°C) and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. The moisture in the concrete should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

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## Application methods

Other Nylon or steel trowel.

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## Application data

|                       |  |
|-----------------------|--|
| Mixing ratio (volume) | 1.7 litres Comp. A (base) to be mixed thoroughly with 1 litre Comp. B (curing agent) before adding 24 kg graded aggregates. NO PART MIXING   |
| Mixing                | Mix the resin and curing agent well before adding the aggregate. A forced action drill and appropriate mixing paddle should be used. The three components are supplied in a 20 litre container that can be used as the mixing vessel.  |
| Pot life (23°C)       | 25 min. (Comp. A + Comp. B only), 40 min. (mix. with aggregate).   |
| Cleaner               | Jotun Thinner No. 17 or fresh water.   |
| Note                  | It is essential to apply Jotafloor Screed onto Jotafloor Screed Primer whilst the primer is still "tacky". See separate Technical Data Sheet.<br><br>This product should be applied by a trained specialist. Jotun can offer a list of Licensed Applicators on request to your local Jotun office. |

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## Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- \* Good ventilation (Outdoor exposure or free circulation of air)
- \* Typical film thickness
- \* One coat on top of inert substrate

| Substrate temperature               | 15°C | 23°C | 40°C |
|-------------------------------------|------|------|------|
| Surface dry                         | 10 h | 6 h  | 3 h  |
| Through dry                         | 16 h | 10 h | 4 h  |
| Cured                               | 8 d  | 7 d  | 4 d  |
| Dry to recoat, minimum              | 16 h | 10 h | 4 h  |
| Dry to recoat, maximum <sup>1</sup> | 96 h | 96 h | 48 h |

1. The surface should be free from chalking and contamination prior to application. If the maximum dry to recoat time is exceeded, please contact Jotun Paints for advice.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

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## Typical paint system

|                                    |               |                      |
|------------------------------------|---------------|----------------------|
| Jotafloor Screed Primer            | 1 x 150 µm    | (Dry Film Thickness) |
| Jotafloor Screed<br>and eventually | 1 x 5000 µm   | (Dry Film Thickness) |
| Jotafloor Topcoat                  | 1 - 2 x 50 µm | (Dry Film Thickness) |

Other systems may be specified, depending on area of use

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## Test Certificates

Determination of Compressive Strength - ASTM C579  
Determination of Tensile Strength - ASTM C307  
Determination of Flexural Strength - ASTM C580  
Determination of Bond strength to host concrete - BS 1881 : Part 207  
Determination of Crack Bridgeability - ASTM C884  
Determination of Rapid Chloride Permeability - AASHTO T277  
Determination of Water Permeability - DIN 1048  
Determination of Acid or Alkali Reaction - ASTM D543  
Determination of Water or Salt Spray Test - N.F.C. Standard  
Determination of Impact Resistance - ISO 6272  
Determination of Taber Abrasion (1,000 Cycles) - ASTM D4060  
Determination of Toxicity - BS 6920  
Determination of Flame Spread - ASTM D1360

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## Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

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## Handling

Handle with care. Stir well before use.

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## Packing size

1.7 l Comp. A (base) and 1 l Comp. B (curing agent). 24 kg graded aggregate.  
Packing may vary from country to country according to local requirements.

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## Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

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### DISCLAIMER

*The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.*

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