

Technical Data

Jotafloor SL Universal



Product description

Jotafloor SL Universal is a high performance, self smoothing, solvent free, three component, seamless epoxy coating capable of being applied at varying thicknesses to suit the final use of the floor. Jotafloor SL Universal offers excellent chemical, abrasion and impact resistance.

Recommended use

Jotafloor SL Universal has a wide range of application uses ranging from light industrial areas to floors requiring long lasting protection from abrasion and heavy loads. Typical areas include:

- Warehouses
- Garages
- Dairies
- Factories
- Laboratories
- Aircraft hangers
- Plant rooms
- Food manufacturing plants
- Kitchens

The product is designed to be applied at a minimum thickness of 800 microns up to 5 mm. Greater thicknesses can be achieved but advice should be sought from your local Jotun Technical Department.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	800	5000	2000
Film thickness, wet (µm)	800	5000	2000
Theoretical spreading rate (m ² /l)	1,25	0,2	0,5

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 Shore 'A' hardness - ASTM D2240
- Determination of Taber Abrasion (1,000 Cycles) - ASTM D4060
- Determination of Toxicity - BS 6920
- Determination of Flame Spread - ASTM D1360
- Determination of resistance to aviation fuel - ASTM D543 : 1987
- Determination of ease of decontamination - BS4247 Part 1:1987
- Determination of resistance to skydrol hydraulic fluid - ASTM D543-1987

(These certificates are just a few examples of available certificates. Please contact Jotun for details)

Physical properties

Colour	Available in a range of attractive colours. See Jotafloor Colour card.
Solids (vol %)*	98 ± 2
Flash point	> 100°C (Setaflash)
VOC	20 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Glossy
Water resistance	Excellent
Abrasion resistance	Excellent
Solvent resistance	Excellent
Chemical resistance	Excellent Check chemical resistance values in Jotafloor chemical resistance chart.

*Measured according to ISO 3233:1998 (E)

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.

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information.

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.

Condition during application

The temperature of the substrate should be minimum 10°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 content in the concrete should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Application methods

Other For thicknesses from 1.5 mm to 5 mm use a steel trowel or height adjustable steel spreader. For thicknesses from 800 microns to 1.5 mm the material should be spread out onto the floor using a flat edged trowel or similar tool and finished with a good quality short hair mohair roller. The minimum thickness range will be easier to apply if the amount of silica flour is slightly reduced (contact your local Jotun office for assistance). Once the desired film thickness is achieved, it is very important to roll the coatings with a spiker roller. This will help to avoid air bubbles and remove trowel marks.

Application data

Mixing ratio (volume)	7,5 l Comp. A (base) to be mixed thoroughly with 3,75 l Comp. B (curing agent) and then add 6,75 l silica flour. NO PART MIXING
Mixing	Mix the resin and curing agent well before adding the silica flour. Use a slow speed drill and mixing paddle. Mix the three components in the container supplied. Pour the full contents of the mixed material on to the floor immediately after mixing is completed.
Pot life (23°C)	Jotafloor SL Universal Comp. B (20) 10 min. (30 min. after poured on to the floor). Jotafloor SL Universal Comp. B (40) 20 min. (45 min. after poured on to the floor).
Cleaner	Jotun Thinner No. 17
Note	This product should be applied by a trained specialist. Jotun can offer a list of Licensed Applicators on request to your local Jotun office.

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

Curing agent comp. B (20):

Substrate temperature	15°C	23°C	40°C
Surface dry	6 h	4 h	2 h
Through dry	24 h	15 h	6 h
Cured	10 d	7 d	3 d
Dry to recoat, minimum	24 h	15 h	6 h
Dry to recoat, maximum ¹	72 h	36 h	24 h

Curing agent comp. B (40):

Substrate temperature	15°C	23°C	40°C
Surface dry	8 h	5 h	2 h
Through dry	32 h	20 h	8 h
Cured	12 d	9 d	3 d
Dry to recoat, minimum	32 h	20 h	8 h
Dry to recoat, maximum	96 h	48 h	36 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 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.

Typical paint system

Jotafloor Solvent Free Primer	1 - 2 x 100 µm	(Dry Film Thickness)
Jotafloor SL Universal	1 x 5000 µm	(Dry Film Thickness)

Note: Thickness of the finished system will vary depending on use of the finished floor. Consult your local Jotun Office for advice.

Other systems may be specified, depending on area of use

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.

Handling

Handle with care. Stir well before use.

Packing size

7.5 litres Comp. A (base) in a 10 litres container and 3.75 litres Comp. B (curing agent) in a 5 litres container. 6.75 litres Comp. C (silica flour) in a 10 litres container.

Packing may vary from country to country according to local requirements.

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.

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 can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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