

Technical Data

JOTAFLOOR DAMP BOND



Product description

Jotafloor Damp Bond is a specially formulated two component, epoxy resin based primer used to promote adhesion between Jotafloor products and the parent concrete substrate. Can also be applied directly onto damp green concrete thereby aiding the curing process.

Recommended use

For use primarily as a primer for Jotafloor systems in many situations such as:

- ÿ Kitchens
- ÿ Factories
- ÿ Car parks
- ÿ Traffic Decks
- ÿ Warehouses
- ÿ Basements
- ÿ Manufacturing facilities
- ÿ Industrial Unites

Provides a cost effective method of curing and priming using one product thereby minimising labour costs and down time. It is important to seek technical advice from your local Jotun office on choice of primer and application technique.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	100	200	150
Film thickness, wet (μm)	125	250	187
Theoretical spreading rate (m^2/l)	8	4	5,3

Physical properties

Colour	Limited number
Solids (vol %)*	80 \pm 2
Flash point	80°C \pm 2 (Setaflash)
Water resistance	Excellent
Abrasion resistance	Excellent
Solvent resistance	Excellent
Chemical resistance	Excellent
Flexibility	Good

*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.

Bare steel

Cleanliness: Blast cleaning to min. Sa 2 ½ (ISO 8501 1:1988). Roughness: using abrasives suitable to achieve Grade Medium G (50 - 85 µm, Ry5) (ISO 8503-2).

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. Please contact your local Jotun office for more information.

Application on green concrete can take place as soon as it is practical to walk on the surface. Damp green concrete can be brushed or subject to light grinding prior to application of the primer.

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 15°C and at least 3°C above the dew point of the air. The temperature and the relative humidity should be measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Application methods

Spray Use airless spray or roller

Brush Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

Other For use on new concrete, apply as soon as practically possible to the freshly placed concrete. One coat applied at 100 microns D.F.T. is sufficient to effectively cured normal concrete. Two coats applied at right angles can be considered if the subsequent floor coating is to be applied within the normal curing period. Old concrete will require a regime of surface preparation as detailed below.

Application data

Mixing ratio (volume) 2 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent). We strongly recommended no part mixing.

Mixing Mix and use immediately
Pot life (23°C) 30 min. (reduced at higher temperatures)

Thinner/Cleaner Jotun Thinner No. 17

Guiding data airless spray

Pressure at nozzle 15 MPa (150 kp/cm², 2100 psi)
Nozzle tip 0.63 - 1.09 mm (0.025-0.043")
Spray angle 65 - 80°
Filter Filters to be removed prior to spraying.

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	7 h	5 h	3 h
Through dry	24 h	20 h	14 h
Cured	10 d	7 d	5 d
Dry to recoat, minimum	8 h	6 h	4 h
Dry to recoat, maximum ¹	30 h	24 h	18 h

1. Recommended data given for product prior to application of Jotafloor Non Slip Aggregate and subsequent over coating with Jotafloor PU Topcoat

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 Damp Bond	1 x 100 µm	(Dry Film Thickness)
Jotafloor Coating	1 x 300 µm	(Dry Film Thickness)
Jotafloor Damp Bond	1 x 100 µm	(Dry Film Thickness)
Jotafloor Glass Flake	1 x 300 µm	(Dry Film Thickness)
Jotafloor Non Slip Aggregate		
Jotafloor PU Topcoat	2 x 70 µm	(Dry Film Thickness)
Jotafloor Damp Bond	1 x 100 µm	(Dry Film Thickness)
Jotafloor Topcoat	2 x 50 µm	(Dry Film Thickness)

Note: Jotafloor Damp Bond can be used in many different situations but has limitations relative to negative water pressure. We recommend consulting your local Jotun Technical Department for advice on choice of system.

Other systems may be specified, depending on area of use

Test Certificates

Determination of Curing Efficiency - ASTM C156
Determination of Water Permeability - DIN 1048
Determination of Crack Bridgeability - ASTM C836
Determination of Pull off Strength - BS 1881

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

13 l. Comp. A (base) and 6.5 l. Comp. B (curing agent).

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 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.

Footer - English

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