

Technical Data

JOTAGUARD 85



Product description

Jotaguard 85 is a two-pack epoxy coal-tar coating.

Recommended use

Steel structures permanently or frequently submerged in water, inside crude oil tanks, sewage treatment plants, buried concrete structures etc. Excellent in combination with cathodic protection.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	75	200	100
Film thickness, wet (μm)	115	310	155
Theoretical spreading rate (m^2/l)	8.7	3.3	6.5

Physical properties

Colour	Black and Brown.
Solids (vol %)*	65 ± 2
Flash point	$25^\circ\text{C} \pm 2$ (Setaflash)
Gloss	Semiflat
Water resistance	Excellent
Abrasion resistance	Good
Chemical resistance	Good (Discolouration may occur)
Flexibility	Good
Compatibility with cathodic protection	Very good

*Measured according to ISO 3233:1998 (E)

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Bare steel

Cleanliness: Blast-cleaning to Sa 2½ (ISO-8501-1:1988). Power tool cleaning to min. St 2 (ISO 8501-1:1988) may be acceptable, subjected to exposure conditions.

Shopprimed steel

Clean, dry and undamaged approved blast-primer.

Coated surfaces

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

Other surfaces

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 5°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure correct drying.

Application methods

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

Application data

Mixing ratio (volume) 4 parts Comp. A (base) to be thoroughly mixed to 1 part Comp. B (curing agent)
Pot life (23°C) 8 hours. (Reduced at higher temp.)
Thinner/Cleaner Jotun Thinner No. 17
Guiding data airless spray
Pressure at nozzle 15 MPa (150 kp/cm² 2100 psi)
Nozzle tip 0.53 - 0.79 mm (0.021-0.031")
Spray angle 65 - 80°
Filter Check to ensure that filters are clean.

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	5°C	10°C	23°C	40°C
Surface dry	6 h	3 h	2 h	1 h
Through dry	72 h	36 h	12 h	6 h
Cured	21 d	14 d	7 d	3 d
Dry to recoat, minimum	72 h	36 h	12 h	6 h
Dry to recoat, maximum ^{1,2}	7 d	7 d	7 d	4 d

1. The surface should be free from chalking and contamination prior to application. At interior exposure note that best intercoat adhesion occurs when the subsequent coat is applied before the preceding coat is cured. At exterior exposure, the chalking effect especially from the sunlight limits the maximum dry to recoat time.
2. Maximum figures refer to exterior surfaces. For interior surfaces, there are no limit.

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

Jotaguard 85 3 x 100 µm (Dry Film Thickness)

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

16 L. Comp. A and 4 L. Comp. B

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.

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