

Technical Data

JOTAGUARD 550

(ex. Jotacote 550)



Product description

Jotaguard 550 is a high build two-pack epoxy coal-tar coating.

Recommended use

For the protection of steel and concrete in immersed conditions in aggressive marine and industrial environments.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	150	500	400
Film thickness, wet (µm)	192	640	513
Theoretical spreading rate (m ² /l)	5,2	1,6	2

Physical properties

Colour	Black and Brown.
Solids (vol %)*	78 ± 2
Flash point	20°C ± 2 (Setaflash)
Gloss	Semiflat
Water resistance	Excellent
Abrasion resistance	Good
Solvent resistance	Good (Discolouration)
Chemical resistance	Good
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 for minor touch-up work, subjected to exposure conditions.

Shopprimed steel

Clean, dry and undamaged approved shopprimer.

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.

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. Good ventilation is usually required in confined areas to ensure proper drying. 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

Spray	Use airless spray or conventional spray
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller	May be used. However when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	3 parts Comp. A (base) to be thoroughly mixed with 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/cm ² , 2100 psi)
Nozzle tip	0.021 - .031" (0.53 - 0.79 mm)
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	10°C	23°C	40°C
Surface dry	10 h	3 h	1 h
Through dry	48 h	18 h	8 h
Cured	10 d	3 d	36 h
Dry to recoat, minimum	48 h	18 h	8 h
Dry to recoat, maximum	10 d	3 d	36 h

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 550	1x400 µm	(Dry Film Thickness)
Jotaguard 550	2*250 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

20 lit pack (15 lit Comp. A and 5 lit Comp. B)

5 lit pack (3.75 lit Comp. A and 1.25 lit 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.

Footer - English

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