

Technical Data

Jotamastic Smart Pack



Product description

Jotamastic Smart Pack is a two-pack surface tolerant high solids epoxy mastic coating which is provided in 1:1 mixing ratio for easy mixing and reduced wastage. Jotamastic Smart Pack is designed to be applied by brush or roller.

Recommended use

Anticorrosive touch-up coating for steel structures where small repairs are required and spray application is not practical. Jotamastic Smart Pack is suitable for areas with lower quality surface preparation and extended durability is expected. It is recommended to use brush for the first coat.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	50	120	80
Film thickness, wet (μm)	68	163	110
Theoretical spreading rate (m^2/l)	14,7	6,1	9,2

Comments

Film thickness above is typical for what is achieved by one coat of brush or roller application.

Hong Kong rules: Category of paints - Other vessel coatings; VOC 300(AL)/280(color) gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.37 (A+B);

Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

Physical properties

Colour	Aluminium, Black, Buff, Green, Grey, Red
Solids (vol %)*	72 ± 2 Aluminium 75 ± 2 Black, Buff, Grey, Green, Red
Flash point	33°C ± 2 (Setaflash)
VOC	Aluminium 2,51 lbs/gal (300 gms/ltr) USA-EPA Method 24 240 gms/ltr UK-PG6/23(97). Appendix 3 Colours 2,34 lbs/gal (280 gms/ltr) USA-EPA Method 24 230 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Semigloss
Gloss retention	Fair
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Good
Chemical resistance	Good
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

Surface preparation

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

Bare steel

Cleanliness: Power tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007). Improved surface treatment (blast cleaning to Sa 2½) will improve the performance. In case of hydrojetting the flash rust degree shall not exceed moderate in SSPC and NACE standards for water prepared surfaces.

Shopprimed steel

Clean, dry and undamaged approved shopprimer.

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information. For maintenance UHPWJ to WJ2 (NACE No.5/SSPC-SP 12) or Power tool cleaning to min. St 2 for rusted areas

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 0°C and minimum 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. With forced ventilation, avoid heated air at first as this may cause surface drying and solvent entrapment. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Hydrojetting of steel surface makes a wet surface. The surrounding air must have a relative humidity not exceeding 85 %. Before painting the surface shall not be glossy with moisture, but can have a patchy appearance.

Application methods

Spray	Airless spray can be used.
Brush	Use a round brush. Care must be taken to achieve the spreading rate.
Roller	Use of a foam roller will provide the best finish results.

Application data

Mixing ratio (volume)	1:1
Mixing	1 parts by volume Comp. A (Base) to be mixed thoroughly with 1 part by volume Jotamastic Smart Pack, Comp. B (Curing agent). Mix well and allow to stand (10 min. including mixing).
Pot life (23°C)	1½ hours
Thinner/Cleaner	Jotun Thinner No. 17
Note	* The temperature of the mixture of base and curing agent is recommended to be at least 15°C, otherwise extra solvent may be required to obtain correct viscosity. * Too much solvent results in lower sag resistance and slower cure. * If extra solvent is necessary, this should be added after mixing of the two components.

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	12 h	7 h	4 h	2 h
Through dry	20 h	14 h	7 h	3 h
Cured	14 d	10 d	7 d	3 d
Dry to recoat, minimum	20 h	14 h	7 h	3 h
Dry to recoat, maximum ¹				

1. Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.

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

Jotamastic Smart Pack 3 coats with roller
or
Jotamastic Smart Pack 2-3 coats with brush

Followed by surrounding topcoat.

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

10 litre unit: 5 litres Comp. A (base) in a 5 litre container and 5 litres Jotamastic Smart Pack, Comp. B (curing agent) in a 5 litre container

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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