

Technical Data

Polymastic 2000



Product description

Polymastic 2000 is a two-pack, surface tolerant abrasion resistant solvent free epoxy mastic coating.

Recommended use

Steel where blast cleaning may not be possible and on hydrojetted surfaces still being moist where gloss and colour retention is of minor importance. Can be used alone or in combination with various systems of primers and topcoats. Gives excellent corrosion protection both in salt and fresh water. If exposed to sunlight chalking may occur.

Film thickness and spreading rate

| | Minimum | Maximum | Typical |
|--|---------|---------|---------|
| Film thickness, dry (μm) | 200 | 500 | 300 |
| Film thickness, wet (μm) | 210 | 520 | 310 |
| Theoretical spreading rate (m^2/l) | 4,8 | 1,9 | 3,2 |

Physical properties

| | |
|---------------------|---------------------------------------|
| Colour | Aluminium, Light grey, Off-white, Red |
| Solids (vol %)* | 96 \pm 2 |
| Flash point | Non-flammable |
| VOC | 80 gms/ltr UK-PG6/23(97). Appendix 3 |
| Gloss | Semigloss |
| Gloss retention | Fair |
| Water resistance | Very good |
| Abrasion resistance | Good |
| Solvent resistance | Good |
| Chemical resistance | Good |
| Flexibility | 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: 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.

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 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 with high pressure ratio (min. 60:1). |
| Brush | Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness. |
| Roller | May be used for small areas but not recommended for first primer coat, 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) | 2 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent). |
| Pot life (23 °C) | 60 min. (Reduced at higher temp.). |
| Thinner/Cleaner | Jotun Thinner No. 17 |
| Guiding data airless spray | |
| Pressure at nozzle | 20 MPa (200 kp/cm ² , 2800 psi). |
| Nozzle tip | 0.021-0.031" (0.53-0.79 mm). |
| Spray angle | 40-80° |
| Filter | Check to ensure that filters are clean. |

Note

* It is of vital importance that the nozzle and other parts of the spraying equipment are cleaned properly directly after the work is done due to the short pot life. If a pail is used under the spray pump and new paint poured into it, this pail must be changed every one hour.

* The hoses should be of good quality and not longer than necessary.

* The temperature of base and curing agent is recommended to be 18°C or higher when the paint is mixed.

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 | 50 h | 28 h | 7 h | 3 h |
| Through dry | 60 h | 32 h | 9 h | 4 h |
| Cured | 21 d | 14 d | 7 d | 3 d |
| Dry to recoat, minimum | 60 h | 32 h | 9 h | 4 h |
| Dry to recoat, maximum ¹ | | | | |

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

Polymastic 2000 2 x 300 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

13 litres Comp. A (base) in a 20 litre container and 6.5 litres Comp. B (curing agent) in a 10 litre 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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ISSUED 26 NOVEMBER 2010 BY JOTUN
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