

Technical Data

POLYGUARD 85 ME



Product description

Polyguard 85 ME is a two-pack, modified, epoxy based Primer.

Recommended use

Steel structures exposed to severe conditions.

Film thickness and spreading rate

| | Minimum | Maximum | Typical |
|--|---------|---------|---------|
| Film thickness, dry (μm) | 100 | 150 | 100 |
| Film thickness, wet (μm) | 140 | 240 | 140 |
| Theoretical spreading rate (m^2/l) | 7.2 | 4.8 | 7.2 |

Physical properties

| | |
|---------------------|-------------------------------|
| Colour | Red, Grey and Limited Others. |
| Solids (vol %)* | 72 \pm 2 |
| Flash point | 30°C \pm 2 (Setaflash) |
| Gloss | Semigloss |
| Water resistance | 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 8501-1:1988). Improved surface treatment (blast cleaning to Sa 2½) will improve the performance.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

For steel substrate: 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. For Concrete: 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 |
| 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 of Comp. A (Base) to 1 part of Comp. B (Curing agent). |
| Induction time | 30 minutes. |
| Pot life (23°C) | 8 (Hours reduced at higher temperature.) |
| Thinner/Cleaner | Jotun Thinner No. 17 |
| Guiding data airless spray | |
| Pressure at nozzle | Min. 150 Kp/cm (2100 psi.) |
| Nozzle tip | 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 | 10°C | 23°C | 40°C |
|-------------------------------|-------------|-------------|-------------|
| Surface dry | 12 h | 6 h | 2 h |
| Through dry | 40 h | 20 h | 8 h |
| Cured | 14 d | 7 d | 4 d |
| Dry to recoat, minimum | 40 h | 20 h | 8 h |
| Dry to recoat, maximum | 96 h | 48 h | 24 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

Blast Cleaning to Sa 2.5 or Intact blast primer.
Polyguard 85 ME 2 X 100 microns (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 (base) - 4 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.

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