

Technical Data

Vinyl Primer



Product description

Vinyl Primer is a quick drying, one-component modified vinyl primer/sealer pigmented with aluminium flakes for added water resistance.

Recommended use

Vinyl Primer can be used both for underwater and topside areas. It is an excellent universal sealer, which can effectively seal correctly prepared, intact old antifouling systems. It also bonds well to fresh, uncured epoxy primers, whilst allowing antifouling and other one-component coatings to bond onto it. Vinyl Primer can be used directly onto steel as primer used in alkyd and acrylic coating systems.

Film thickness and spreading rate

| | Minimum | Maximum | Typical |
|--|---------|---------|---------|
| Film thickness, dry (µm) | 35 | 100 | 80 |
| Film thickness, wet (µm) | 95 | 260 | 210 |
| Theoretical spreading rate (m ² /l) | 10,9 | 3,8 | 4,8 |

Physical properties

| | |
|---------------------|--|
| Colour | Aluminium |
| Solids (vol %)* | 38 ± 2 |
| Flash point | 28°C ± 2 (Setaflash) |
| VOC | 5,17 lbs/gal (615 gms/ltr) USA-EPA Method 24 |
| Gloss | Flat |
| Water resistance | Very good |
| Abrasion resistance | Good |
| Solvent resistance | Limited |
| 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: Blast-cleaning to Sa 2½ (ISO-8501-1:2007). Power tool cleaning to min. St 2 (ISO 8501-1:2007) may be acceptable, subject to exposure conditions.

Shopprimed steel

Clean, dry and undamaged approved shopprimer.

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 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 correct drying.

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 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) | Single pack. |
| Thinner/Cleaner | Jotun Thinner No. 7 |
| Guiding data airless spray | |
| Pressure at nozzle | 15 MPa (150 kp/cm ² 2100 psi) |
| Nozzle tip | 0.46-0.69 mm (0.018-0.027") |
| Spray angle | 40-80° |
| Filter | Check to ensure that filters are clean. |
| Guiding data conventional spray | |
| Pressure at nozzle | 3 - 4 bar (kg/cm ²) |
| Nozzle tip | 1.4 - 1.8 mm |
| Filter | Check to ensure that water and oil filters are available. |
| Note | Distance from air compressor to filters is to be min. 10 m. |

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 | 30 min | 20 min | 15 min | 10 min |
| Through dry | 4 h | 3 h | 2 h | 1.5 h |
| Dry to recoat, minimum ¹ | 4 h | 3 h | 2 h | 2 h |

1. In case of multi-coat application, drying times will be influenced by the number in sequence and by the total thickness of previous coat applied.

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

Epoxy Yacht HB 2 x 150 µm (Dry Film Thickness)
Vinyl Primer **1 x 50 µm (Dry Film Thickness)**
Selected Antifouling

Alternative:

Sealer coat on top of old antifouling:

Vinyl Primer **1 x 35 µm (Dry Film Thickness)**
Selected Antifouling

Other systems may be specified, depending on area of use

Instruction of use

Topside

1. Fibreglass, Steel, Aluminium, Lead and cast iron

Apply two or three coats of Vinyl Primer, and finish with two coats of TopOne or Shipolin.

2. Wood

Apply one coat of Vinyl Primer diluted 15% with Jotun Thinner No. 7. After drying, apply two coats of Vinyl Primer and finish with two coats of TopOne or Shipolin.

Underwater area

1. Wood

Apply Clipper I 5-15 coat, wet-on-wet, dependant on surface absorption. After drying apply three coats of Vinyl Primer (80 microns d.f.t. each coat) and finish with two coats of the selected antifouling.

2. Fibreglass, Steel, Aluminium, Lead and cast iron

Apply three coats of Vinyl Primer (80 microns d.f.t. each coat) and finish with two coats of the selected antifouling.

Maintenance

When used as a sealer on old antifouling in good condition apply one preventive coat of Vinyl Primer (35 microns dft) and finish with two coats of the selected antifouling.

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

0,75 litres in a 0,75 litre container.

2,5 litres in a 2,5 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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ISSUED 26 NOVEMBER 2010 BY JOTUN
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