



## Kovinyl Wash Primer VP185 (Two-Component)

**Product Description** Kovinyl Wash Primer VP185 is a two-component, etching primer containing phosphoric acid and rust-preventing pigments. It cures chemically by reaction of the mixed components.

**Recommended Use** As a temporary protective coating for a steel plates, specially protecting of inner hull in LNG carriers. Also It can use a pretreatment primer for non-ferrous metals such as aluminium and light alloys as well as galvanized steel.

### Physical Properties

**Finish and Color** Flat. Red Brown, Blue

**Drying Time**

|                       |            |             |             |
|-----------------------|------------|-------------|-------------|
| Substrate temperature | 5 °C/41 °F | 20 °C/68 °F | 30 °C/86 °F |
| Set to touch          | 20 min     | 10 min      | 5 min       |
| Dry through           | 1 h        | 30 min      | 15 min      |

\* The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions should be checked and informed by KCC.

**Solids by Volume** Approx. 13 % (Determined by ISO 3233)

**Theoretical Spreading Rate** 4.3 m<sup>2</sup>/L in 30 μm dry film thickness on a smooth surface.

**Specific Gravity** Approx. 0.94 for Mixture of Base and Curing agent.

**Flash Point** Base (VP185 PTA) : 8 °C/46 °F (Closed cup)  
Curing Agent (VP185 PTB) : 8 °C/46 °F (Closed cup)

### Application Details

**Surface Preparation** \* Steel  
Blast cleaning to a minimum Sa2.5 'Near white metal' to obtain 25~75 μm blast profile.  
\* Non-ferrous metals  
Remove any oil and grease and other impurities from the surface to be coated.  
Some types of galvanized steel may require light blasting with fine abrasive.

**Application Conditions** The surface should be cleaned and dried completely. Do not apply when relative humidity is above 85 %. The surface temperature should be at least 2.7 °C (5 °F) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.

**Mixing** Base (PTA) : Curing Agent (PTB) = 4 : 1 (by volume)  
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

**Pot Life** 8 h at 20 °C/68 °F

**Thinning** Thinner No. 053 ( Mixing rate : 30 ~ 40 %)  
Do not dilute the components separately.

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

## Kovynyl Wash Primer VP185 (Two-Component)

**Application** Brush, spray (Airless and Air) application.

**Method** For airless spray application ;

Nozzle orifice : 381  $\mu\text{m}$  ~ 483  $\mu\text{m}$  (0.015" ~ 0.019")

Output pressure : 7.6 MPa ~ 9.7 MPa

Fan : 40 ° ~ 60 °

(Airless spray data are indicative and subject to adjustment)

**Typical** 30  $\mu\text{m}$  dry.

**Film Thickness** Depending on the purpose and the area of use, different film thickness may be applied.

**Recoating Interval** At 20 °C / 68 °F, Minimum : 24 h  
Maximum : Free

Before overcoating, remove the oil, salts, chalking materials and any other contaminants on aged coating film completely by proper cleaning method such as solvent cleaning and/or fresh water washing.

**Shelf Life** 12 months

**Heat Resistance** Continuous : 82 °C/180 °F (Non-immersion service)

Non-Continuous : 93 °C/200 °F (Non-immersion service)

**Chemical Resistance**

|                   | Acids | Alkalis | Solvents | Salts     | Water     |
|-------------------|-------|---------|----------|-----------|-----------|
| Splash & Spillage | Fair  | Good    | Good     | Good      | Good      |
| Fumes             | Good  | Good    | Good     | Excellent | Excellent |

**Standard Packing Unit** 12.8 L (VP185 PTA : 10.24 L, VP185 PTB : 2.56 L)

**Remarks** Kovynyl wash primer contains phosphoric acid. Handle with care. Keep containers closed and away from heat, sparks and flame.  
Avoid prolonged breathing of solvent vapors.  
Use with adequate ventilation.  
Respiratory protection is recommended during application in confined spaces or stagnant air.  
Do not store at temperature below 5 °C/41 °F or above 45 °C/113 °F.

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