



Korepox H.B. EH3100 (Two-Component)

Product Description A two-component, high build, epoxy resin based solvent free coating. It can be used as a single coat for fresh water. It may be used in contact with food products, for fresh (potable) water tank and pipe line in accordance with FDA regulation, section 175.300 and WRAS approval.

Recommended Use As a high performance coating for fresh (potable) water tanks or steel structure.

Physical Properties

Finish and Color Gloss. Cream

Drying Time

| Substrate temperature | 5 °C/41 °F | 20 °C/68 °F | 30 °C/86 °F |
|-----------------------|------------|-------------|-------------|
| Set to touch | 24 h | 5 h | 3 h |
| Dry through | 96 h | 24 h | 16 h |

* 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. 100 % (Determined by ISO 3233)

Theoretical Spreading Rate 3.3 m²/L in 300 μm dry film thickness on a smooth surface.

Specific Gravity Approx. 1.40 for Mixture of Base and Curing agent.

Flash Point Base (EH3100-A) : above 100 °C/212 °F (Closed cup)
Curing Agent (EH3100-B) : above 100 °C/212 °F (Closed cup)

Application Details

Surface Preparation Remove any oil, grease, dirt and any other contaminants from the surface before painting by proper method such as solvent cleaning and fresh water washing, etc.
* Steel : Blast cleaning to Sa2.5 or Power tool cleaning to St3, etc.

Application Conditions The surface should be completely cleaned and dried. 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 (Part A) : Curing Agent (Part B) = 3 : 1 (by volume)
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

Pot Life 1 h at 20 °C/68 °F

Preceding Coat Korepox Holding Primer EP1700, Korepox Prime EP6172, or according to specification.

Thinning Thinner No. 024 (if necessary)

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.

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| Application Method | Spray (Airless or Air), Roller or Brush application. For airless spray application ; Pump ratio : Min. 66 : 1 Nozzle orifice : 483 μm ~ 584 μm (0.019" ~ 0.023") Fan : 40° ~ 60° Output pressure : Min. 39.6 MPa * Roller or Brush application is limited to only small or damaged areas. * Twin-feed airless spray equipment is preferable considering its short pot-life. * Length of hoses should be as short as possible. (Airless spray data are indicative and subject to adjustment) |
| Typical Film Thickness | 300 μm dry. 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 : 6 d 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 : 93 °C/200 °F (Non-immersion service) Non-continuous : 121 °C/250 °F (Non-immersion service) |
| Standard Packing Unit | 16 L (EH3100-A : 12 L, EH3100-B : 4 L) |
| Remarks | Do not store at temperature below 5 °C/41 °F or above 40 °C/104 °F. Use with adequate ventilation. Respiratory protection is recommended when applying this product in confined spaces or stagnant air. |
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