

UNEPOX UNDERCOAT HB 2K Solvent Based Epoxy Tie Coat

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DESCRIPTION

UNEPOX UNDERCOAT HB 2K is a glossy semi-matte epoxy-based paint with a high filler content containing a polyamide hardener and solvent. It is used either to protect intermediate layers from chemical and mechanical influences or as an intermediate layer for subsequent coatings.

ADVANTAGES

- Exhibits high chemical and mechanical durability.
- Easy to mix.
- Applicable with roller, brush, or spray.
- Forms a matte, hard film.
- Bacteria-resistant.
- Non-toxic when cured.
- Provides excellent substrate adhesion.

PRODUCT APPLICATIONS

- Refineries, Petrochemical facilities
- Wastewater treatment plants
- Pharmaceutical industry, hospitals
- To prevent floor dusting
- In food facilities
- As an intermediate layer for the corrosion protection of all types of metal components and fittings

COLOR

RAL 7001 or special color options are available based on minimum production quantities and RAL selections.

PRODUCT FEATURES (AT 20°C)

BASIC DATAS (For mixed material @20 °C)	
Mass density	1,52 g/cm ³
Solid Content	By Weight %73
Touch dry after	2-4 h
Viscosity	1360 cP
Interval time	Min.16 h, Max.48 h
Full Dry	16-24 h
Full cure	7 d
Gel Time	6-8 h
Theoretical Consumption	0,130 kg/m ² for a dry film thickness of 40 microns (1 Coat)

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SURFACE PREPARATION

New concrete and cement plaster should cure for a minimum of 21 days. After removing any residual mortar with light sanding or brushing, apply the selected primer to the cured surface.

On old concrete and cement plaster surfaces, remnants of old paint, dirt, dust, and loose particles should be removed by sanding, scraping, or brushing. Oil and grease residues should be cleaned with a detergent solution. If neutralization is required, the surface should be wiped with a 3-4% hydrochloric acid or acetic acid solution and rinsed with water. Ensure the floor is completely dry before applying the selected primer. Iron and Steel surfaces, in accordance with the Swedish Standard SIS 055900-1967 Sa2 1/2 or St3 Photo norms, should be sandblasted or mechanically cleaned. Within four hours of this process, the selected primer paint should be applied. Painted surfaces should not be left for the next day. If the application must be postponed, the surface should be sanded and cleaned again before priming. For metal surfaces to be underwater, UNEPOX ZP PRIMER 2K(Epoxy Zinc Phosphate Primer) or UNEPOX ZRP 2K(Zinc Rich Epoxy Primer) should be applied. If the metal components are not underwater, the application of UNEPOX ZC PRIMER 2K(Zinc Chromate Epoxy Primer) is sufficient. For other metals and alloys, aluminum and galvanized surfaces should be cleaned with a special cleanser, followed by a coat of UNEPOX WP (Wash Primer).

APPLICATION PROCEDURE

- The two components should be mixed and applied on the primed surface with a roller, brush, or spray gun.
- Thinner UP-002 is recommended for thinning if necessary and for equipment cleaning.

MIXING RATIOS

The mixing ratio for UNEPOX UNDERCOAT HB 2K is 5 units of Component A to 1 unit of Component B.

CONSUMPTION

- Theoretical consumption: 0.130 kg/m² per coat (depending on surface permeability and porosity).
- Do not apply the material at temperatures below 14°C or above 35°C.

Important Note

Consumption rates may vary based on surface porosity, ambient temperature, and application technique.

PACKAGING

Packed in tin containers containing 16,7 kg Base + 3,3 kg Hardener.

STORAGE CONDITIONS

The product should be stored in its original unopened packaging in closed and dry storage areas within the temperature range of 15°C to 35°C. The shelf life (guarantee) is 12 months from the production date in a cool and dry place. Do not expose the products to sunlight outdoors. Protect from freezing in cold weather.

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SAFETY AND RELATED DATA

UNEPOX UNDERCOAT HB 2K is not hazardous when cured and does not contain formaldehyde, asbestos, mercury, lead, chromate, or their derivatives. For detailed information on safe transportation, occupational health, and safety, please refer to the relevant Material Safety Data Sheet (MSDS) for the product.

Note

The explanations provided in this technical sheet are based on test evaluations and results according to relevant standards to guide applicators. Due to variables such as workmanship, weather conditions, construction, equipment used, and other factors that can influence outcomes beyond our control, UNICA does not provide any explicit or implied warranty regarding this material. UNICA only guarantees that the material conforms to product specifications and its sole responsibility towards the buyer or user is limited to the replacement value of the product in case of manufacturing defects. Under no circumstances is UNICA liable for any direct or incidental, special, or consequential injury, loss, or damage arising from the material or its application. The manufacturer assumes no responsibility for any defects, alterations, or changes in the substrate where the products are applied.