

UNEPOX ENAMEL WB 2K Water Based Epoxy Enamel Topcoat

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PRODUCT CHARACTERISTICS

Two component, Low VOC, water based adduct cured, glossy/matt epoxy topcoat

PRODUCT USE

Unepox Enamel WB 2K is general purpose waterbased epoxy topcoat in protective systems for steel and concrete structures exposed to atmospheric land, marine conditions, contaminations.

APPLICATION AREAS

Pipelines, water purification plants, tanks exterior surfaces, food industries, wall coating in hospitals, refineries, petrochemical plants, parking areas, garages.

1.1.1

1.1.2 PRODUCT PROPERTIES

- Good adhesion to concrete, GRC panels, steel, galvanized steel and aluminium
- Can be applied on damp surfaces
- Cures at temperatures down to +10 °C
- Long pot life
- Good water/salty water and corrosion resistance
- Good resistance against splash of mild chemicals
- UV Resistant
- Good hygienic & antibacterial surface properties,
- Easy clean

COLORS

- Unepox Enamel WB is available in a variety of RAL Colour Chart.
- Custom colours are available subject to laboratory approvals, minimum quantities, lead time for production, and increased cost. BOYTEM's TECH SERVICE DEPARTMENT are ready to assist.

TECHNICAL DATA

BASIC DATA (for mixed product at 20°C)

Mass density	approx. 1,34 gr/cm ³
Solids content	approx. 45 % by volume
Touch after dry	2-4 h
Overcoating interval	Min.24 hours, Max.48 hours
Theoretical spreading rate	4-5 m ² /kg at 80micron dry film thickness in one coat (Depending on surface permeability and porosity)
Gel Time	3 hours at 20°C
Cure Time	Cures @ temperatures down to +10°C.
Full cure after	7 days

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SURFACE PREPARATIONS

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared. Work must be performed by trained or experienced contractors or maintenance personnel.

Surface must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other foreign matters by mechanical abrasion. If acid etching is used, remove acidic water and dust from all surfaces by washing waterjet or vacuum.

For steel structure:

- For immersion exposure: *Steel: blast cleaned to ISO –Sa2 ½
- For atmospheric exposure: *Steel: pretreated preferably to ISO- Sa2 ½ or according to ISO-St3
- Galvanised steel should be cleaned from the grease, salts and other contaminations
- Previous coat of UNEPOX ENAMEL WB (UNEPOX ZC PRIMER, UNEPOX ZP PRIMER, etc.) should be dry and free from any contamination.

For concrete wall and ceilings:

Apply one or two layers UNEPOX PRIMER WB before UNEPOX ENAMEL WB application.

Note: Surface must be perfectly dry before and during application of UNEPOX ENAMEL WB coating.

APPLICATION METHOD

- Mixing ratio by weight: base to hardener 80:20
- Stir each component prior to mixing.
- While mixing the base (Component A) add the hardener (Component B) and mix until homogenous.
- It should be well homogenised by slow turning electric mixer for 2-3 minutes.
- The temperature of the mixed base and hardener should preferably be above 10°C

APPLICATION SYSTEM

BOYTEM recommends that every flooring system be installed with a primer to insure maximum adhesion to the prepared substrate. Priming will also help to seal air in the concrete and prevent outgassing and air bubbling in the finished system. See the UNEPOX PRIMER WB TDS for more installation procedure.

CONSIDERATIONS

- Surface temperature should be above +5°C during application and at least 3°C above dew point.
- Use normal precautions such as gloves, facemasks.
- Adequate ventilation must be maintained.
- Explosion proof lights & electrical equipment.
- non-sparking shoes & tools for workers in area.
- This product contains flammable materials. Forbid all flames, smoking and welding in work area.
- Avoid breathing of vapor, contact with skin or eyes.
- If product contacts with skin or eyes, wash thoroughly with water and obtain medical attention

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PACKAGING

(A+ B Components) in sets of 20 kg in sealed metal cans.

STORAGE

The product is stored in sealed containers placed at indoor dry warehousing premises within the temperature range from 10⁰C to 35⁰C. Shelf life (warranty) is 12 months from the production date in cool and dry place

CLEAN-UP

Tap Water

SECURITY RELATED DATAS

- Component A contains epoxy resin, Component B contains alkaline amines.
- May cause skin sensitization or other allergic reactions.
- Ventilation is necessary, especially when the material is heated.
- Necessary precautions should be taken to prevent any contact with eyes or skin.
- Wear protective clothing, goggles, gloves and a mask and/or use protective creams.
- Keep containers closed when not in use.
- Wash hands and equipment thoroughly after use.

Note

The explanations made in this technical page are made according to the test evaluations and results of the product according to the relevant standards, and it is aimed to provide a guide to the practitioners. As workmanship, weather conditions, construction, equipment used and other variables that affect results are completely beyond our control, UNICA does not give any express or implied warranty regarding this material. UNICA only warrants that the material complies with the product specifications, and the sole responsibility of the buyer or user of this product is limited to the replacement value of the product against manufacturing defects. In no event shall UNICA be liable for any direct or incidental, special or consequential injury, loss or damage in connection with the material or work performed. UNICA is in no way responsible for any defect, change or condition change in the infrastructure where its products are applied.