EPISOL® PRIMER EL WB

WATER-BASED, CONDUCTIVE EPOXY PRIMER

DESCRIPTION

EPISOL® PRIMER EL WB is a water-based, conductive epoxy primer. It is used as an intermediate conductive primer for both vapour permeable and vapour-tight EPISOL® ESD and ATEX floor systems.

ADVANTAGES

- Good conductivity
- Water-based - Solvent free
- Both for vapour permeable and vapour-tight conductive floors
- Long processability
- Easy applicable with a paint roller

FIELD OF APPLICATION

It suitable as intermediate primer for EPISOL® systems designed for industrial ATEX environments and for ESD-areas (EPA).

Typical ATEX or ESD areas are:
- Industry, logistics and warehousing – storage of combustible dust or liquids
- Areas subject to Explosion Hazard
- Laboratories and Clean rooms
- Computer and Server rooms
- Electronic and High-tech industry
- Pharmaceutical and chemical industries
- Food processing Industry
- Energy production & mining
- Battery charging stations
- Automotive Industry
- Aerospace, Aviation, Defense industry
- etc...

APPLICATION

Note: The following is a typical application description. In case of other jobsite parameters, please contact our technical department.

PRELIMINARY ANALYSES

The EPISOL® PRIMER EL WB is part of a ESD or conductive system.
Consult the System build sheets EP SL UVM ESD and EP SLW UVM ESD sheet.
Always apply the EPISOL® EL WB conductive water-based epoxy primer onto an epoxy primer or scratch layer.
Make sure the correct epoxy primer, and scratch coat if the surface needs to be levelled, is applied to the substrate. Foresee the self-adhesive copper strips to apply before the conductive primer.
Consult the product sheets of the individual layers and ask advice to KORACHEM NV.
Conditions during application and curing: see "Application conditions" further described in this technical sheet.

REQUIRED TOOLS

- Mixer with spindle (min. 300 tr/min)
- Paint roller suitable for epoxy-based products.
- Masking tape

PREPARATION OF THE SUBSTRATE

EPISOL® PRIMER EL WB is always applied to a cured primer or levelling layer, after the application of the separately ordered self-adhesive, profiled copper strips. Place the copper strips along the perimeter of the area, approximately 30 cm from the wall, and connect them to at least two grounding points. For surfaces larger than 400 m², an additional grid is installed with copper strips in a mesh size of 20 x 20 meters. If you choose to work with a seamless plinths, use RESIPOX® UNIVERSAL with RESIPOX® epoxy repair mortar.

PREPARATION OF THE PRODUCT

Mixing

Stir the base (component A) homogeneously before use. Add the complete amount to the hardener (component B) and mix mechanically (300 rpm) until both components are homogeneous.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing and application equipment.

APPLICATION

Spread 1 layer of EPISOL® PRIMER EL WB with a paint roller over the entire surface that needs to be treated

FINISHING

Provided there is sufficient ventilation, the treated surface can be walked on 4 hours after application and the next layer of the EPISOL® ATEX or ESD floor system can be applied.

APPLICATION CONDITIONS

Conditions during application and curing of the products.
The recommended processing temperature for the substrate, environment, materials and products is between +10 °C and +25 °C.
Relative humidity: Max. 85%
Dew point: The temperature of the substrate and of the not fully cured product must be at least 3 °C higher than its dew point. Avoid condensation on the surface from the moment the preparations start until the complete curing of the products. Provide adequate ventilation and a low relative humidity during curing.

CLEANING AND MAINTENANCE

Clean the used tools with clean water before curing the EPISOL® PRIMER EL WB. Cured product remains have to be removed mechanically.
To clean and maintain the installed resin system, please refer to the information leaflets:
Cleaning and maintenance of synthetic resin floor systems - INDUSTRY
Cleaning and maintenance of synthetic resin floor systems - PUBLIC AND PRIVATE BUILDINGS

RESIPLAST
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COMPLIMENTARY PRODUCTS

RESIPLAST EP SL UVM ESD System, or Variant (PM/C), see System Data Sheets:

- Primer: EPISOL® UNIVERSAL, EPISOL® PRIMER RFE, or EPISOL® PRIMER WTF (for ceramic tiles after sanding).
- Optional: scratch- or levelling layer EPISOL® UNIVERSAL (filled with M4 quartz flour ration resin: filler = 1 : 1 minimum 1.0 kg/m² or 1 : 1.5 minimum 2.5 kg/m²) or EPISOL® FLOORLINE EGALISER
- Self-adhesive profiled copper strips
- Conductive floor: EPISOL® FLOORLINE EL of EPISOL® FLOORLINE ESD
- Coloured topcoat: EPISOL® PU 43 OP MAT EL
- Optional: Glass beads RESIGRIP 150 (5% by weight mixed in topcoat)

Other

- Epoxy repair and plinth mortar RESIPOX®
- Cleaning solvent for tools: SOLVENT MEK

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	Epoxy resin
B-component	Modified polyamine hardener
Colour	Black
Surface	Smooth, Matt

REACTION TIMES

Processing time after mixing: 45 minutes.
Pedestrian traffic: after 4 hours.
Overcoatable: After 4 up to 48 hours.
Fully mechanically loaded: After 4 days.
Time measured at 20 °C with sufficient ventilation, lower temperatures extend the curing time.

CONSUMPTION

100 g/m² (max. up to 150 g/m2)

TECHNICAL DATA

Specific mass	1.05 ± 0,01 kg/dm³
Specific resistance	±2 kΩ
Layer thickness	±80 – 100 µm

CHEMICAL RESISTANCES

EPISOL® PRIMER EL WB provides limited protection against chemical attack. For more information please contact KORACHEM NV.

CE MARKING

CE

KORACHEM NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium

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EN 13813

Synthetic resin floor/coating for indoor use in buildings

Release of corrosive substances	SR
Water permeability	NPD
Abrasion resistance	NPD
Adhesion strength	≥ B1,5
Impact resistance	NPD
Soundproofing	NPD
Electrical resistance	ER2000
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD
Reaction to fire	E_{fl}

REFERENCE DOCUMENTS

bsi. ISO 9001:2015 Quality Management FM 78518

bsi. ISO 14001:2015 Environmental Management EMS 716699

COMPLIANT - COMPLIANT REACH

PACKAGING

EPISOL® PRIMER EL WB	Comp. A	Comp. B
Set 3 kg	0.43 kg	2.57 kg
Set 9 kg	1,29 kg	7,71 kg

STORAGE AND SHELF LIFE

Store EPISOL® PRIMER EL WB in a dry, well ventilated storage area between 5 and 35 °C.
Shelf life: 24 months after production date.
If in doubt, contact KORACHEM NV and provide the batch number on the package. Do not let the product get in contact with ground water, surface water or sewage systems. Dispose of contaminated packaging and remnants according to legal regulations.

SAFETY PRECAUTIONS

Carefully read the safety instructions before using EPISOL® PRIMER EL WB. Ensure there is sufficient ventilation, stay away from ignition sources and do not smoke. Avoid contact with skin. Eye irritation and/or sensitivity may occur during heavy vapour concentrations, inhalation and/or skin contact. Do not keep food products (food, beverages) in the same workspace. Always wear personal protective equipment according to local guidelines and regulations. Gloves and safety goggles are mandatory.

The above information is provided in good faith, but without any guarantees. The application, use and processing of the products are beyond our control and are, as such, the sole responsibility of the user/processor. In the event that Korachem NV is still held liable for damages, then the claim will still be limited to the value of the goods delivered. We always aim to deliver consistently high quality goods. All values on this technical sheet are average values that result from tests carried out under laboratory conditions (20 °C and 50% RH). Values that are measured on the construction site may show a slight deviation since the environmental conditions, the application, and the way of processing our products are beyond our control. Do not add any products other than those indicated on the technical documentation. This version replaces all previous versions. Version 2.0 Date: 22 May 2025 3:15 pm