

# EPISOL® PRIMER EL WB

WATER-BASED, ELECTRICALLY CONDUCTIVE, EPOXY INTERLAYER



## DESCRIPTION

EPISOL® PRIMER EL WB is a water-based, electrically conductive epoxy inter layer. This is used in both the RESIPLAST® NV conductive vapour permeable as the vapour-tight cast floor systems.

## BENEFITS

- Good conductivity
- Water-based - Solvent free
- Both for vapour permeable and vapour-tight conductive cast floors
- Simple processing
- Long processing time
- Low viscosity
- Applicable with a paint roller

## FIELD OF APPLICATION

- Electrically conductive and electrostatic cast floors
- Rooms subject to explosion hazard - ATEX
- Rooms with sensitive electronic equipment
- Computer rooms
- Electronic industry
- Pharmaceutical industry
- Food and animal nutrition
- Battery charging stations
- Automotive, space and aviation industry
- Storage rooms for solvents
- etc.

## APPLICATION

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

### PRELIMINARY ANALYSES

Before starting the substrate preparations and the application of the product it is important to verify the different parameters to obtain good sustainable results.

Compressive strength of the substrate: min. 25 N/mm<sup>2</sup>

Tensile strength of the substrate: min. 1.5 N/mm<sup>2</sup>

Moisture content in the substrate when placing vapour permeable systems: ≤ 10%. Moisture content in the substrate when placing vapour-tight systems: ≤ 4%.

Conditions during application and curing: see "Application conditions" further described in this technical sheet.

Technically studied dilatation joints have to be provided. These are reintroduced in the resin to be placed. The flatness of the floor has to be corresponding with the desired requirements. If this is not the case, correct measures need to be taken to fill up irregularities or to leveling with products that are complementary to the substrate and the resin system to be applied.

Passive joints and cracks or flaws can be overcoated. This is on the condition that they are not used as dilatation joints or if they do not follow the different movements of the construction and the substrate and that they are levelled with complementary products to the substrate and to the resin system to be applied.

### REQUIRED TOOLS

- Mixer with spindle (min. 300 tr/min)
- Brush or two-component paint roller suitable for epoxy-based products.
- Masking tape

### PREPARATION OF THE SUBSTRATE

Cracks, flaws, joints and other parts showing water leaks first need to be made completely water and leak proof.

The surface must be pretreated. This can be done by shot blasting or sandblasting the surface dust-free or by grating the surface. This treatment ensures the surface will have an open texture, to remove the cement skin of concrete and old debris of coatings and glue. High pressure water jets can also be used but then the surface needs to dry sufficiently before applying the resin based system.

(Moisture content in the substrate when installing a vapour permeable system: ≤ 10% moisture and when placing a vapour-tight system: ≤ 4% moisture)

Always apply the products on a clean surface, free of adhesion-reducing materials such as dirt, oil, grease, old coatings or surface treatments, etc. The parts of the surfaces to be covered that do not comply with the requirements as described above (compressive strength, tensile strength, not corresponding parts...) should be treated or removed and restored according to a correct method with products that are complementary to the substrate and the resin system to be applied. Remove loose parts by brushing well and remove dust with an industrial vacuum cleaner.

EPISOL® PRIMER EL WB is always applied on a cured primer or on a cured levelling layer. On this cured primer or levelling layer, copper strips are glued in 8 x 8 metre sections. For small areas, attach at least two strips in a cross shape. Copper strips are earthed, one connection per 100 m<sup>2</sup>. If you choose to work with a seamless plinth, use RESIPOX® PRIMER with RESIPOX® epoxy repair and plinth 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 brush or 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 RESIPLAST® NV conductive 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

## COMPLIMENTARY PRODUCTS

### For vapour permeable system:

Primer: EPISOL® PRIMER WTF

Optional Levelling layer: EPISOL® SLW 1-2

Self-adhesive profiled copper strip.

Complementary conductive cast floors: EPISOL® SLW EL

Complementary top layer: EPISOL® PU 43 OP MAT with EPISOL® PU 43 OP EL

### For vapor impermeable system:

Primer: EPISOL® PRIMER RFE

Optional Levelling layer: EPISOL® FLOORLINE EGALISER

Self-adhesive profiled copper strip.

Complementary conductive cast floors: EPISOL® FLOORLINE EL, EPISOL® PU SL 2K EL

Complementary top layer: EPISOL® PU 43 OP MAT with EPISOL® PU 43 OP EL

## ADVICE / FOCAL POINTS

When treating a new concrete substrate with a vapour permeable system, it should at least be 7 days old. Vapour-tight systems should be at least 28 days old.

## TECHNICAL DATA

### APPEARANCE - COMPOSITION

A-component	Epoxy resin
B-component	Modified polyamine hardener
Colour	Black

### REACTION TIMES

Processing time after mixing: 45 minutes.

Pedestrian traffic: After 4 hours.

Fully mechanically loaded: After 4 days.

Full chemical resistance: After 7 days. (Attention: water is also a chemical product)

Complete curing: After 7 days.

Time measured at 20 °C, lower temperatures extend the curing time.

### CONSUMPTION

Approximately 150 g/m<sup>2</sup> to 200 g/m<sup>2</sup>


### TECHNICAL DATA

Specific mass	1.1 kg/dm <sup>3</sup>
Colour	Matte black
Specific resistance	±1 kΩ
Layer thickness	80 μm

### CHEMICAL RESISTANCES

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

## CE MARKING

	
KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
12	
EN 13813	
Synthetic resin floor/coating for indoor use in buildings	
Reaction to fire	NPD
Release of corrosive substances	SR
Water permeability	NPD
Abrasion resistance (Taber)	<40 mg (CS10-1000 tr - 1 kg)
Adhesion strength	B 1,5
Impact resistance (DIN EN ISO 6272)	>10 Nm
Soundproofing	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

## REFERENCE DOCUMENTS



FM 78518



EMS 716699



## PACKAGING

EPISOL® PRIMER EL WB	Comp. A	Comp. B
Set 3 kg	0.43 kg	2.57 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 RESIPLAST® 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 KorAC 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: 28 June 2023 5:36 pm