

# EPISOL® SLW

## WATER-BASED AND VAPOUR-PERMEABLE EPOXY SCREED FLOOR



### DESCRIPTION

EPISOL® SLW is a seamless, water-based and vapour-permeable epoxy screed that can be applied to concrete with a damaged or missing vapour barrier. Depending on the chosen filler, the screed floor can be applied in various thicknesses. (from 1 to 2 mm, 3 to 5 mm or 6 to 9 mm)

EPISOL® SLW with a thickness of 1 to 2 mm can also be used as a scraping or levelling layer for the EPISOL® FLOORLINE GREEN systems

### BENEFITS

- Short-term resistance up to 100°C
- Vapour permeable
- Water-based, solvent-free
- Odour-free
- Good chemical and mechanical resistance
- High pressure resistance
- Extensive colour palette
- Satin matt / Satin gloss
- Liquid-tight
- Low VOC
- Good fire resistance Bfl-s1

### FIELD OF APPLICATION

Suitable for covering floors

- Food industry
- Industrial kitchens and large kitchens
- Parking garages
- Industry
- Transport, storage and transfer
- Chemical and petrochemical industry
- Pharmaceutical industry and laboratories
- Private, public and commercial spaces
- Cellars
- 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>

EPISOL® SLW is placed on a cured EPISOL® PRIMER, for a vapour permeable solution use EPISOL® PRIMER WTF. The system can be applied on a slightly damp surface with this primer.

Moisture content in the substrate: ≤ 10% moisture

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

Technically studied dilatation joints need 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 resins to be applied.

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

#### REQUIRED TOOLS

- Mixer with spindle (min. 300 tr/min)
- Flat trowel or tooth comb
- Point roller
- 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 has to be pre-treated mechanically. This can be done by shot- 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 (Moisture content in the substrate: ≤ 10% moisture) before applying the resin system.

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.

In case the flatness of the floor does not meet the desired requirements then a scraping or levelling layer can be applied. (EPISOL® PRIMER WTF as primer with EPISOL® SLW 1-2 as scraping or leveling layer). Remove loose parts by brushing well and remove dust with an industrial vacuum cleaner.

Prepare metal substrates by blasting them. The rough level of strength for metal surfaces is SA 2 $\frac{1}{2}$ . Then degrease the surface immediately with SOLVENT MEK. After completely evaporating the SOLVENT MEK immediately apply a layer of EPISOL® PRIMER WTF to prevent the reoxidation of the steel before overlaying the surface with synthetic resins.

#### PREPARATION OF THE PRODUCT

Mixing

Stir the hardener (component B) homogeneously before use. Add the full quantity of the resin (component A) and mix mechanically (300 tr/min) until both components are homogeneous. The filler component is slowly added to the mixture. Mix to a homogeneous mass.

Fillers and quantity to be used in function of the desired thickness of the screed:

EPISOL® SLW Thickness: 1-2 mm				
Set weight (in kg)	Resin comp A (in kg)	Hardener comp B (in kg)	Filler comp C (in kg)	
20.61	2.28	5.83	12.5	= 1x component C EPISOL® FLOORLINE 1-2 of 12.5 kg
EPISOL® SLW Thickness: 3-5 mm				
Set weight (in kg)	Resin comp A (in kg)	Hardener comp B (in kg)	Filler comp C (in kg)	
22.50	2.28	5.83	14.4	= 1x component C EPISOL® SLW
45.02	4.56	11.66	28.8	= 2x component C EPISOL® SLW
EPISOL® SLW Thickness: 6-9 mm				
Set weight (in kg)	Resin comp A (in kg)	Hardener comp B (in kg)	Filler comp C (in kg)	
34.93	2.28	5.83	26.83	= 1x component C EPISOL® MC

### PREPARATION OF THE EQUIPMENT

Always work with clean mixing and application equipment.

### APPLICATION

Pour out EPISOL® SLW and spread the product over the entire surface with a flat trowel or tooth comb with a triangular saw blade profile. Vent immediately with a point roller.

### FINISHING

After 48 hours, a suitable top layer of EPISOL® AQ PAINT 2.0, EPISOL® PU TOPCOAT WB or EPISOL® PU 43 OP MAT can be applied. Also consult the technical data sheets of these products.

### APPLICATION CONDITIONS

The recommended processing temperature for the substrate, environment, materials and products is between +10 °C and +35 °C. Relative humidity: Max. 85% (during full curing process). 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 during curing.

### CLEANING AND MAINTENANCE

Clean the used tools with clear water before curing the EPISOL® SLW. Cured product remains have to be removed mechanically. To clean and maintain the installed synthetic 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 cleaning the used tools: Clean water
- Primer: EPISOL® PRIMER WTF
- Filler: see box above "PREPARING THE PRODUCT "
- Suitable Top layers: EPISOL® AQ PAINT 2.0, EPISOL® PU 43 OP MAT or EPISOL® PU TOPCOAT WB

### ADVICE / FOCAL POINTS

A new concrete surface should be at least 7 days old when treated with EPISOL® SLW

## TECHNICAL DATA

### APPEARANCE - COMPOSITION

A-component	Epoxy resin
B-component	Modified Polyamine hardener with filler and pigment
C-component	Dry filler
Colour	Extensive colour palette (ask for more details)

### REACTION TIMES

Processing time after mixing: 30 minutes.  
Pedestrian traffic: After 24 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.  
Times measured at 20 °C, lower temperatures prolong the curing time.

### CONSUMPTION

- With filler EPISOL® FLOORLINE 1-2: 1.5 kg/m<sup>2</sup> per mm layer thickness
- With filler EPISOL® SLW: 1.65 kg/m<sup>2</sup> per mm layer thickness
- With filler EPISOL® MC: 1.8 kg/m<sup>2</sup> per mm layer thickness


### TECHNICAL DATA

Specific mass	1.5-1.8 kg/dm <sup>3</sup> (depends on filler)
Surface	Smooth, satin shine
Pressure resistance	>35 N/mm <sup>2</sup> (value depends on filler)
Flexural strength	>18 N/mm <sup>2</sup>
Adhesion to concrete	>1.5 N/mm <sup>2</sup>
Hardness Shore D	75 - 85
Fire class ( EN 13501 )	Bfl-s1
Water vapour-permeability Water vapour transmission Water vapour-permeability coeff.	WVP 6.67*10 <sup>-7</sup> g/m <sup>2</sup> .s.Pa WVT 9.75*10 <sup>-4</sup> g/m <sup>2</sup> .s 1.44*10 <sup>-7</sup>
Heat resistance	100 °C temporary, occasional exposure (spillage, cleaning, maintenance, ...)
Layer thickness: - filler EPISOL® FLOORLINE 1-2: - filler EPISOL® SLW: - filler EPISOL® MC:	1 to 2 mm 3 to 5 mm 6 to 9 mm
Perseverance	Shrink-free

### CHEMICAL RESISTANCES

Good chemical resistance to alkalis, petroleum derivatives, battery acid, dilute organic acids, salts and solutions. For more information you can consult our chemical resistance table on [www.resiplast.be](http://www.resiplast.be) or contact RESIPLAST® NV.

## CE MARKING

	
KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
19	
EN 13813	
Synthetic resin floor/coating for indoor use in buildings	
Reaction to fire	B <sub>fl</sub> -s1
Release of corrosive substances	SR
Water permeability	NPD
Abrasion resistance (Taber)	<15 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

Fire classe (EN 13501): Bfl-s1



## PACKAGING

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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: 2 August 2023 2:04 pm

## STORAGE AND SHELF LIFE

Store EPISOL® SLW in a dry, well-ventilated storage room between +5 °C and +35 °C.

Shelf life 24 months, C component unlimited shelf life.

When in doubt, contact RESIPLAST® NV and enter the batch number mentioned on the packaging. Do not discharge into groundwater, surface water or sewerage. Dispose of contaminated packaging and waste according to the applicable legal requirements.

## SAFETY PRECAUTIONS

Carefully read the safety instructions before using EPISOL® SLW. A characteristic odour is created during processing. Ensure adequate ventilation, keep away from sources of ignition and do not smoke. Avoid skin contact. Eye irritation and / or hypersensitivity may occur with vigorous vapor concentration, inhalation and / or skin contact. Do not store provisions (food, drinks) in the same workspace. Always wear personal protective equipment in accordance with applicable local guidelines and legislation. Gloves and safety glasses are mandatory.