

EPISOL® PRIMER WTF

FAST CURING, WATERBASED, DAMP OPEN EPOXY PRIMER



DESCRIPTION

EPISOL® PRIMER WTF is a fast-setting, water-based, vapor permeable epoxy primer. It is a concentrate and must be diluted with water before use.

ADVANTAGES

- Excellent adhesion to tiles, concrete and metal surfaces
- Waterbased - Solvent free
- Pedestrian traffic: after 4 hours
- Vapour permeability
- Good smoothening qualities
- Moisture-insensitive hardening
- Silicone-free
- Water-dilutable

FIELD OF APPLICATION

EPISOL® PRIMER WTF is extremely suitable as a primer for vapor permeable synthetic resin floor systems from the RESIPLAST® NV - EPISOL® FLOORLINE GREEN range and as a primer on tiles or on metal surfaces. EPISOL® PRIMER WTF can be placed on a damp surface. It is a quick primer for all kinds of synthetic resin (epoxy and polyurethane) and cement-based cast and mortar floor systems and is also suitable for making concrete floors dust-free.

- Underground and above-ground parking decks
- Garages
- Workplaces
- Warehouses
- Storage rooms for dangerous goods
- Industrial floors that need to be overlaid
- Cellars and underground structures
- Decorative floors
- Shopping areas
- Public buildings
- Food industry, pharma, industrial kitchens
- 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/mm²

Tensile strength of the substrate: min. 1,5 N/mm²

EPISOL® PRIMER WTF can be applied on a slightly damp underground. 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 have to be provided. These are

reintroduced in the resin system 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 to be applied.

REQUIRED TOOLS

Clean water.

Mixing recipients

Mixer with spindle (min. 300 rpm)

Squeegee

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 (Moisture content in the substrate: ≤ 10% moisture) before applying the primer.

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 leveling layer can be applied. If you choose to work with a seamless plinth, use RESIPOX® PRIMER with RESIPOX® epoxy repair and plinth mortar. Remove loose parts by brushing well and remove dust with an industrial vacuum cleaner.

Prepare metal substrates by blasting them. The roughness grade for metal surfaces is SA 2½. Then immediately degrease the surface with SOLVENT MEK. After completely evaporating the SOLVENT MEK, immediately apply a layer EPISOL® PRIMER WTF to the surface to counter the reoxidation of the steel.

PREPARATION OF THE PRODUCT

Mixing

Stir the base (component A) evenly before use. Add the full amount of hardener (component B) and mix mechanically (300 rpm) until both components are homogeneous. Always add the clean water as last and mix mechanically.



As a primer:

1 volume part of EPISOL® PRIMER WTF+½ volume part of water

As an impregnation coat:

1 volume part of EPISOL® PRIMER WTF+1 volume part of water

PREPARATION OF THE EQUIPMENT

Always work with clean mixing and application equipment.

APPLICATION**As a primer or impregnation layer**

Evenly distribute the EPISOL® PRIMER WTF with a paint roller or wipe over the entire surface.

FINISHING**As a primer**

After 4 hours, the primer can be overlaid with a cement or synthetic resin cast or mortar floor.

As a impregnation:

After 2 hours, a second layer can be applied if necessary.

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 WTF. 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

Use clear water to prepare the product and to clean the tools.

ADVICE / FOCAL POINTS

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

TECHNICAL DATA**APPEARANCE - COMPOSITION**

A-component	Modified epoxy resins
B-component	Polyamine hardener
Colour	Amber transparent

REACTION TIMES

Processing time after mixing: 1 hour.

Pedestrian traffic: As a primer, after 4 hours.

As impregnation: after 2 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**As a primer on:**

Tiles: 100 g/m²

(1 liter EPISOL® PRIMER WTF with 0,5 liter of water)

Concrete: 300 g/m²

(1 liter EPISOL® PRIMER WTF with 0,5 liter of water)

Metal: 100 g/m²

(1 liter EPISOL® PRIMER WTF with 0,5 liter of water)

As impregnation layer:

Concrete: 300 g/m²

(1 liter EPISOL® PRIMER WTF with 1 liter of water)


TECHNICAL DATA

Specific mass	1.0 kg/dm ³
Adhesion to concrete	2.6 N/mm ²
Adhesion to tiles	5 N/mm ²
Viscosity 25°C concentrate	+/- 3800 mPa.s
Heat resistance	60°C continuous
Curing	Non-shrinking

CHEMICAL RESISTANCES

EPISOL® PRIMER WTF has an excellent chemical resistance to alkalis, petroleum derivatives, acid, diluted organic acids, salts and solutions. For more information please contact RESIPLAST® NV.

CE TABLE


RESIPLAST® NV, Gulkenrodestraat 3, B-2160 Wommelgem
12
EN 13813
Synthetic resin impregnation and primer layer - For overcoating surfaces.

Reaction to fire	NPD
Release of corrosive substances	SR
Water permeability	NPD
Abrasion resistance (Taber)	<30 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 WTF	Comp A	Comp B
Set 10 kg	5 kg	5 kg

STORAGE AND SHELF LIFE

Store EPISOL® PRIMER WTF in a dry, well ventilated storage area between +5 and +35°C.
24 months shelf life.

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 WTF. Products have a characteristic odour when being applied. 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 Resiplast N.V. 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: 7 April 2021 8:43 am