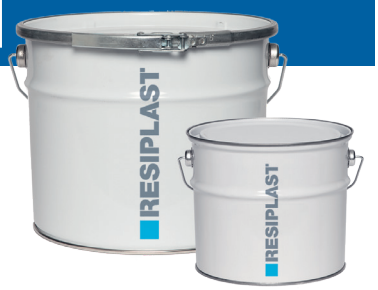
EPISOL® FLOORLINE 0.5-1

EPOXY COATING OR THIN CAST FLOOR - 0.5 TO 1 MM



DESCRIPTION

EPISOL® FLOORLINE 0.5-1 is a 2-component epoxy that can be applied both as a colour coating or as a thin cast floor.

ADVANTAGES

- Solvent free
- Odourless
- High wear resistance
- Mechanical strength
- Glossy
- High chemical resistance
- Easy to maintain
- Anti-slip resistance adjustable by means of sprinkling granulate.
- Liquid tight

FIELD OF APPLICATION

Colour coating or thin cast floor for warehouses, garages, workplaces, industry, storage and distribution, storage of dangerous goods, 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 preparation and applying the products, it is important to test various parameters in order to achieve a good and sustainable result.
Compressive strength of the substrate: min. 25 N/mm²
Compressive strength of the substrate: min. 1,5 N/mm²
EPISOL® FLOORLINE 0.5-1 can be applied on a dry surface.
Moisture content in the substrate: ≤ 5 % moisture. Conditions during the application and curing: see "implementation conditions" further described in this technical data sheet.
Technically studied dilatation joints must be provided. These are resumed in the synthetic resin system to be installed.
The flatness of the surface must be consistent with the desired requirements. Should this not be the case, then correct measures have to be taken to fill in or smooth out the irregularities with products that are complementary to the substrate and to the coating to be installed.
Shrink joints and passive cracks can be coated. This on condition that they are not used as dilatation joints or if they do not follow other movements of the structure and the substrate and that they are flattened with products that are complementary to the substrate and to the synthetic resin system to be installed.

REQUIRED TOOLS

- Mixer with spindle (min. 300 rpm)
- Squeegee, brush or 2 component paint roller suited for epoxy based products, rake, spatula or toothed trowel and spiked roller, depending on the application.
- Masking tape

PREPARATION OF THE SUBSTRATE

Tears, cracks, joints and other elements showing water leaks must be made fully water and leak proof.
The surface must be mechanically pre-treated. This can be achieved by removing the dust by bullet- or sandblasting or by sanding the surface. These treatments ensure that an open texture surface is obtained, to remove the cement skin from concrete and old remnants of coatings and adhesives.
High pressure water jetting is possible but then the surface must dry sufficiently. Moisture content in the substrate: ≤ 5 % moisture.
Before applying the coating or before applying a primer in preparation for installing a cast floor: Always apply the products on a clean surface, free from adhesion reducing materials such as dirt, oil, grease, old coatings or surface treatments, ...
The parts of the surfaces to be coated that do not meet the requirements as described above (compressive strength, tensile strength, parts that are not well connected, ...) must be treated or removed and repaired according to a correct method and with products that are complementary to the substrate and the synthetic resin system to be installed.
If you choose to work with a seamless plinth, use RESIPOX® PRIMER with RESIPOX® epoxy repair and plinth mortar.
Remove any loose parts by brushing properly and remove dust with an industrial vacuum cleaner.
EPISOL® FLOORLINE 0.5-1 as a coating can be applied directly to the pre-treated substrate. Always apply EPISOL® FLOORLINE 0.5-1 as a thin cast floor to a layer of cured EPISOL® PRIMER, EGALISER or old epoxy layer. Epoxy layers older than 2 days must be roughened, dusted and etched.

PREPARATION OF THE PRODUCT

Mixing

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

PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

APPLICATION

As a coating

Add 3 % SOLVENT MEK and apply with a paint roller or brush.

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As a cast floor 1 mm
Apply EPISOL® FLOORLINE 0.5-1 in one layer with a fine glue spatula and immediately roll afterwards with a spiked roller.

Antislip coating
Spread out EPISOL® FLOORLINE 0.5-1 with a spatula and broadcast with dry granulate 0,8-1,2 mm. Remove excess granulate after 24 hours and apply and broadcast the second layer.

FINISHING

As a coating
The second layer can be applied after 24 hours.

As a cast floor 1 mm
Optionally, a RESIPLAST NV epoxy or polyurethane topcoat can be applied.

Antislip coating
After 24 hours emove the excess granulate again and apply a top coat of EPISOL® FLOORLINE 0.5-1 or a transparent RESIPLAST NV epoxy or polyurethane topcoat.

APPLICATION CONDITIONS

Conditions during the application and curing of the products. The recommended processing temperature for substrate, environment, material and products is between +10 °C and +30 °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 the dew point. Avoid condensation on the surface from the Moment that the preparations start until the complete curing of the products. Ensure adequate ventilation and a low relative humidity during curing.

CLEANING AND MAINTENANCE

Clean the used tools with SOLVENT MEK before the curing of EPISOL® FLOORLINE 0.5-1. Cured products residues must be removed mechanically.
For cleaning and maintenance of the installed synthetic resin systems please refer to the information sheets:
Cleaning and maintenance of synthetic resin floor systems - INDUSTRY
Cleaning and maintenance of synthetic resin floor systems - PUBLIC AND PRIVATE BUILDINGS.

COMPLIMENTARY PRODUCTS

- Fill granulate
- Cleaning solvent for tools: SOLVENT MEK

ADVICE / FOCAL POINTS

When treating a new concrete surface with
EPISOL® FLOORLINE 0.5-1, it should be at least 28 days old.

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	Modified epoxy resin with filler and pigment
B-component	Polyamine hardener
Colour	On demand

REACTION TIMES

Processing time ± 30 minutes. Walkable: after 24 hour
Full chemical resistance: after 4 days
Full chemical resistance: after 7 days
Times measured at 20 °C; lower temperatures extend the curing time.

CONSUMPTION

As a coating or antislip coating
Depending on the application: 300 to 800 g/m² per layer

As a cast floor 1 mm
1.4 kg/mm/m²

TECHNICAL DATA

Density	1,4 kg/dm³	
Surface	Smooth or anti-slip	
Compressive strength	>80 N/mm²	
Flexural strength	>40 N/mm²	
Tensile strength	>16 N/mm²	
Bonding to concrete	>1.5 N/mm² (Exceeds concrete cohesion)	
Fire class BS 476	Part 6 Fire spread Part 7 Flames	Class 0 Class 1
Fire class DIN 4102		Class B2
Heat resistance	60 °C	
Layer thickness	400 µm (2 layers without extra layer)	
Min. processing temp	+10 °C	
Curing	Shrink-free	

CHEMICAL RESISTANCES

Good chemical resistance to alkalis, petroleum derivatives, acid, diluted organic acids, salts and solutions. For more information please contact RESIPLAST NV.

CE MARKING

CE

KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
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EN 13813	
Synthetic resin floor/coating for indoor use in buildings	
Reaction to fire	NPD
Release of corrosive components	SR
Water permeability	NPD
Wear resistance (EN13892-4)	AR 0.5
Bonding strength (EN13892-8)	>B 2,0
Impact resistance (DIN EN ISO 6272)	>8 Nm
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

REFERENCE DOCUMENTS

ISO 9001:2015 Quality Management FM 78518
ISO 14001:2015 Environmental Management EMS 716699

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PACKAGING

EPISOL® FLOORLINE 0.5-1	Comp A	Comp B
Set 12.5 kg	10.5 kg	2 kg
Set 25 kg	21 kg	4 kg

STORAGE AND SHELF LIFE

Store EPISOL® FLOORLINE 0.5-1 in a dry, well-ventilated storage area between +5 and +35 °C.
Shelf life: 24 months after production date.
In case of doubt, please contact RESIPLAST NV and state the batch number on the packaging. Do not discharge into groundwater, surface water of sewers. Dispose of contaminated packaging and residues in accordance with the applicable legal requirements.

SAFETY PRECAUTIONS

Carefully read the safety data sheets before using EPISOL® FLOORLINE 0.5-1. Ensure adequate ventilation, keep away from sources of ignition and do not smoke. Avoid skin contact. Eye irritation and/or hypersensitivity may occur with severe vapour concentration, inhalation and/or skin contact. Do not store food and/or drinks in the same workspace. Always wear personal safety equipment in accordance with the applicable local guidelines and legislation. Gloves and safety glasses are mandatory.

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