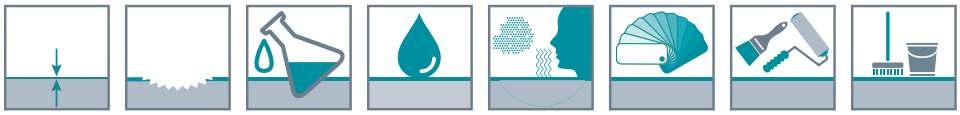
EPISOL® PC

HIGH BUILT, 2 COMPONENT, EPOXY COATING AND TOPCOAT



DESCRIPTION

EPISOL® PC is a high build, 2 component epoxy coating to coat floors and plinths and can be used as a topcoat on epoxy pouring and mortar floors.

BENEFITS

- Limited layer thickness
- High wear resistance
- High chemical resistance
- Liquid tight
- Odourless
- Early water spot resistance
- Colours according to extensive colour palette
- Apply with roller or brush
- Glossy
- Easy to maintain

FIELD OF APPLICATION

As a coating on various substrates or as a topcoat on vaportight epoxy floors and skirting boards.

- Car Park Decks
- Garages
- Workshops
- Warehouses
- Floors to be coated on an industrial basis

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.
When treating a new concrete surface with EPISOL® PC, it should be at least 28 days old.
Compressive strength of the substrate: min. 25 N/mm^2
Compressive strength of the substrate: min. 1.5 N/mm^2
Moisture content in the substrate: ≤ 5% moisture.
Conditions during the application and curing: see section 'Application Conditions' further described in this technical data sheet.
Any dilatation joints in the substrate must be retaken when applying EPISOL® PC.
The flatness of the surface must be consistent with the desired requirements. Any irregularities must be filled or smoothed out with materials that are complementary compatible to the substrate and to the EPISOL® PC coating. Non-moving, passive cracks or shrinkage cracks must be filled beforehand with complementary materials and can be covered with EPISOL® PC.

REQUIRED TOOLS

- Mixer with spindle (min. 300 rpm)
- Brush or 2 component paint roller suited for epoxy based products
- Masking tape

PREPARATION OF THE SUBSTRATE

Cracks, joints and other parts that show water leaks must first be made completely water-tight and leak-proof.
The surface must be mechanically pre-treated. This can be achieved by removing the dust by bullet- or sandblasting 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% humidity before applying the coating.
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.
Should the flatness of the floor not meet the 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 any loose parts by brushing properly and remove dust with an industrial vacuum cleaner.
Prepare metal surfaces by blasting them. The degree of roughness for metal surfaces is SA 2.5. Then immediately degrease the surface with SOLVENT MEK. After the SOLVENT MEK has fully evaporated, immediately apply a layer of EPISOL® PRIMER WTF to prevent the steel from re-oxidizing.

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 processing and mixing equipment.

APPLICATION

Process EPISOL® PC within 30 minutes.
Spread with a brush or paint roller, always work cross- wise. An anti-slip finish can be obtained by broadcasting dry fire-dried quarts or bauxite aggregates in this first layer. Remove aggregate excess after 24 hours.

FINISHING

Apply the second layer (as topcoat) after 12 hours.

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 +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 the dew point. During the curing phase, provide adequate ventilation from the moment that the preparations starts until the complete curing of the products. Ensure a low relative humidity during curing.

RESIPLAST
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CLEANING AND MAINTENANCE

Clean the used tools with MEK before the curing of EPISOL® PC. 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 or cleaning and maintenance of synthetic resin floor systems - PUBLIC AND PRIVATE BUILDINGS.

COMPLIMENTARY PRODUCTS

- Sprinkling granulate if anti-slip finish is required
- Cleaning the tools: SOLVENT MEK

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	Modified epoxy resin with filler and pigment
B-component	Polyamine hardener
Colour	Consult RESIPLAST NV Colour Information Brochure

REACTION TIMES

The floor can be walked on after 24 hours of curing.

Mechanically resistant after 4 days.

Do not clean with water for 7 days.

Full chemical resistance after 7 days at 20 °C, lower temperatures (<20 °C) extend the curing time.

CONSUMPTION

Coating: 300 g/m² per layer Anti-slip: 500 g/m² as top layer.

TECHNICAL DATA

Density (Comp A/ aComp B)	1.90 kg/dm³
Viscosity (Comp A/Comp B) Brookfield DV2T – spindle 5 – 50 rpm – 24 °C	1400 cP
SHORE D – 48 h – 20 °C	74
Wear Resistance – Taber Taber CS10 – 1000 g – 500 cycles	17 mg
Wear resistance BCA	AR0,5
Adhesion to concrete	≥ 1.5 Mpa

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

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EN 13813

Synthetic resin floor/coating for indoor use in buildings

Release of corrosive substances	SR
Abrasion resistance	≤ AR0,5
Bond strength	≥ B1,5
Impact resistance	≥ IR9
Reaction to fire	B_{FL}-s1

CE

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EN 1504-2

Products and systems for the protection and repair of concrete structures. Surface protection systems - Flexible coating (membrane)

Bond strength by pull-off	≥ 1.5 (1.0) N/mm²
CO2 permeability	S_D ≥ 50 m
Water vapour permeability	Class III
Wear resistance	< 3000mg
Capillary water absorption	w < 0.1kg/(m² · $h^{0.5}$)
Impact resistance	Class I
Skid resistance (in specific system)	Class I
Reaction to fire	B_{FL}-s1
Dangerous substances	Compliant 5.4

DoP N°: DOP01EPS01S2

REFERENCE DOCUMENTS

bsi. ISO 9001:2015 Quality Management FM 78518

bsi. ISO 14001:2015 Environmental Management EMS 716699

COMPLIANT - COMPLIANT REACH

PACKAGING

EPISOL® PC	COMP. A	COMP. B
Set 16 kg	14 kg	2 kg

STORAGE AND SHELF LIFE

Store EPISOL® PC in a dry, well-ventilated storage area between +5 and +35 °C.
Shelf life: 24 months.
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® PC. A characteristic odour arises 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 severe vapour concentration, inhalation and/or skin contact. Do not store food 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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