

EPISOL® RP/NV

HIGH BUILD, 2 COMPONENT, EPOXY COATING AND TOPCOAT



DESCRIPTION

EPISOL® RP/NV is a high build, vapour-tight, 2 component epoxy coating for the painting of floors and plinths and can be used as a topcoat on vapour-tight epoxy pouring and mortar floors.

ADVANTAGES

- Limited layer thickness
- High wear resistance
- Mechanical strength
- Very high UV resistance
- High chemical resistance
- Liquid tight
- Colours according to extensive colour palette (RAL - see RESIPLAST® NV Colour Information Brochure)
- Apply with roller or brush
- Glossy
- Easy to maintain
- Liquid tight
- Exceptional electrical insulator

FIELD OF APPLICATION

As a coating on various substrates or as a topcoat on vapor-tight epoxy floors and skirting boards.

- Underground and above ground parking decks
- Garages
- Workshops
- Warehouses
- Storage areas for hazardous goods
- Floors to be coated on an industrial basis
- 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® RP/NV must 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)

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 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 % 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 21/2. 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® RP/NV within 30 minutes.

Spread with a brush or 2-component paint roller, always work cross-wise. An anti-slip finish can be obtained by sprinkling dry granulate in this first layer. Remove excess sand after 24 hours.

FINISHING

Apply the second layer (as top layer) 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. 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 or ethyl acetate before the curing of EPISOL® RP/NV. 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

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

ADVICE / FOCAL POINTS

When treating a new concrete surface with EPISOL® RP/NV, 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	RAL - see also 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 extend the curing time.

CONSUMPTION

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

TECHNICAL DATA


Density	1.5 kg/dm ³
Surface	Smooth or non-slip
Pressure resistance	>24 N/mm ²
Flexural strength	>15 N/mm ²
Tensile strength	>7 N/mm ²
Adhesion to concrete	2.6 N/mm ²
E-modulus	2400 N/mm ²
Water absorption	0.2%
Fire class	Class B2
Heat resistance	60°C

Electrical resistance	10 ¹³ Ohm
Layer thickness	approx 400µ
Min. application temperature	+10°C
Processing time	approx. 45 minutes at 20°C
Hardening time at 20°C	Can be walked on 24 hours Can be mechanically loaded 4 days Can be chemically loaded 7 days
Curing	Non-shrinking
Shelf life	24 months

CHEMICAL RESISTANCES

Good 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	
21	
EN 1504-2	
Synthetic resin casting floor/coating for indoor use in buildings.	

Reaction to fire	E _{fl}
Release of corrosive substances	SR
Water permeability	W<0,1 kg/m ² · h ^{0,5}
Abrasion resistance (Taber)	<3600 mg (H22 - 700 tr - 1 kg)
Adhesion strength	>2,0 N/mm ²
Impact resistance (DIN EN ISO 6272)	Class I
Soundproofing	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

REFERENCE DOCUMENTS



FM 78518



EMS 716699

PACKAGING

EPISOL® RP/NV	COMP. A	COMP. B
Set 5.2 kg	4.25 kg	0.95 kg
Set 12.5 kg	10.23 kg	2.27 kg
Set 26 kg	21.27 kg	4.73 kg

STORAGE AND SHELF LIFE

Store EPISOL® RP/NV 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® RP/NV. 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 (food, 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.

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 2.1 Date: 12 February 2021 1:02 pm