

EPISOL® AQ PAINT 2.0

WATER-BASED AND VAPOR-PERMEABLE EPOXY COATING AND TOP LAYER.



DESCRIPTION

EPISOL® AQ PAINT 2.0 is a two component, water-based vapor-permeable epoxy coating for floors and walls and can be placed as a finishing top layer on vapor-permeable and vapor-tight epoxy screed and mortar floors.

ADVANTAGES

- Applicable indoors and outdoors
- Applicable horizontally and vertically
- To be applied manually or sprayable
- Water-based, solvent-free
- Water vapor permeable
- Odourless
- Very high UV resistance
- High chemical resistance
- Liquid-tight
- Satin shine
- Available transparently or in a wide variety of colours (RAL+NCS - see colour information brochure RESIPLAST® NV)
- Limited layer thickness
- High wear resistance
- High coverage ratio

FIELD OF APPLICATION

- Coating or top layer
- Underground and above-ground parking decks
- Garages
- Workshops
- Warehouses
- Storage rooms for dangerous goods
- Walls and floors to be coated industrially
- Emergency reservoirs
- Walls and pillars
- Basements, cellars and underground structures
- 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® AQ PAINT 2.0 can be applied to 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 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 coating 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

Mixer with spindle (min. 300 tr/min)

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 pre-treated. 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 coating.

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® AQ PAINT 2.0 to the surface to counter the reoxidation of the steel.

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.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing and application equipment. Before applying EPISOL® AQ PAINT 2.0 with a spraying installation, we recommend that you also consult the manufacturer or supplier of this device.

APPLICATION

Process EPISOL® AQ PAINT 2.0 within 30 minutes (at 20 °C) of mixing the product.

As a floor coating, wall coating or top layer - Smooth

Apply the first layer of EPISOL® AQ PAINT 2.0 to the surface with a brush or with a two-component paint roller and always work crosswise.

As a floor coating or top layer - Anti-slip finish

Apply the first layer of EPISOL® AQ PAINT 2.0 to the surface with a brush or two-component paint roller and always work crosswise. An anti-slip finish can be obtained by sprinkling dry granules in this first layer immediately after the application of the EPISOL® AQ PAINT.

FINISHING

As a floor, wall coating or top layer - Smooth

24 hours after applying the first layer of EPISOL® AQ PAINT 2.0 a second layer should be applied as a top layer with a brush or with a 2-component paint roller and always work crosswise.

As a floor coating or top layer - Anti-slip finish

Remove excess granulate with an industrial vacuum cleaner 24 hours after applying the first layer of EPISOL® AQ PAINT 2.0. Then apply a second layer of EPISOL® AQ PAINT 2.0 as a top layer with a brush or with a 2-component paint roller and always work crosswise.

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 clear water before curing the EPISOL® AQ PAINT 2.0. 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

Dry granulate for broadcasting in case of anti-slip finishing.

Cleaning the used tools: Clear water

ADVICE / FOCAL POINTS

A new concrete surface should be at least 7 days old when treated with EPISOL® AQ PAINT 2.0

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	Epoxy resin
B-component	Modified Polyamine hardener with filler and pigment
Colour	Transparent or coloured (RAL + NCS - see RESIPLAST® NV colour information brochure)

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

Time measured at 20°C, lower temperatures extend the curing time.

CONSUMPTION

As a floor and wall coating - Smooth

First layer: +/- 150 - 250 g/m²

(depending on the roughness and porosity of the substrate.)

Second layer: +/- 150 - 250 g/m²

As a floor coating - Anti-slip finish

First layer: +/- 150 - 250 g/m²

(depending on the roughness and porosity of the substrate.)

Second layer: +/- 300 - 400 g/m²

(depending on the degree of anti-slip and the chosen grain size of the broadcasted material in the first layer)

TECHNICAL DATA

Density	1,4 kg/dm ³
Dry matter content	>70%
Viscosity at 20°C	2500 mPa.s +/- 500
Heat resistance	60°C constantly
Layer thickness	+/- 300 µm for each 2 layers

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 or contact RESIPLAST® NV.

CE TABLE

	
RESIPLAST® NV, Gulkenrodestraat 3, B-2160 Wommelgem	
21	
EN 1504-2	
Synthetic resin coating and top layer - For covering surfaces.	

Reaction to fire	B _{fl} - S1
Release of corrosive substances	SR
Water permeability	W<0,1 kg/m ² . h ^{0,5}
Abrasion resistance (Taber)	<3000 mg (H22 - 700 tr -1 kg)
Adhesion strength	B 1,5
Impact resistance (DIN EN ISO 6272)	Class II
Soundproofing	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

REFERENCE DOCUMENTS



PACKAGING

EPISOL® AQ PAINT 2.0 Coloured	COMP. A	COMP. B
Set 6 kg	1 kg	5 kg
Set 12 kg	2 kg	10 kg
Set 24 kg	4 kg	20 kg

EPISOL® AQ PAINT 2.0 Transparent	COMP. A	COMP. B
Set 5,46 kg	1 kg	4,46 kg
Set 10,92 kg	2 kg	8,92 kg
Set 21,84 kg	4 kg	17,84 kg

STORAGE AND SHELF LIFE

Store EPISOL® AQ PAINT 2.0 in a dry, well-ventilated storage room between + 5 °C and + 35 °C.

Shelf life: 24 months after production date.

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® AQ PAINT 2.0. 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.

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 Februarv 2021 12:57 om