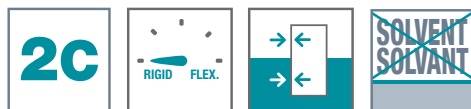


EPILINE PROTECT

HIGH QUALITY, SPRAYABLE, HARD SOLVENT-FREE EPOXYLINER, APPLICABLE TO DRY AND WET SUBSTRATES



DESCRIPTION

EPILINE PROTECT is a 2 component, sprayable, hard epoxy liner for protecting and repairing different surfaces.

BENEFITS

- Can be used on damp and dry surfaces
- High adhesion
- Simple mixing ratio with colour control
- Hard and durable coating
- Fully waterproof
- Easy overlap and connection, freshly applied EPILINE PROTECT adheres seamlessly to an existing layer of EPILINE PROTECT
- Full layer thickness in 1 work flow (+/- 3 mm)
- Adheres well to concrete, masonry, metal, wood ...
- High chemical resistance
- Solvent-free

FIELD OF APPLICATION

EPILINE PROTECT is a sprayable, hard epoxy liner with a simple mixing ratio. The product is suitable for repair and protection of concrete in aggressive environments.

- Water treatment plants
- Sewer renovation
- Shafts, inspection holes and manholes
- Storage and buffer tanks
- Pump wells
- Septic tanks
- Emergency and calamity basins and reservoirs
- Drainage collectors

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

Tensile strength of the substrate: min. 1.5 N/mm²

EPILINE PROTECT can be applied on to a slightly damp surface. Moisture content in the substrate: < 10% moisture (there must not be any free-standing water on the surface to be treated.) 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, correct measures must be taken to fill in or smooth out the unevenness with products that are complementary to the substrate and the synthetic resin system 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

- 1 component airless pump
- Mixer
- Spatula

PREPARATION OF THE SUBSTRATE

Cracks, joints and other parts that show water leaks must first be made completely water-tight and leak-proof. 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.

PREPARATION OF THE EQUIPMENT

Always work with clean tools, pumps and mixing vessels. Flush the pump with SOLVENT MEK before and after the application. Also rinse the pump on a regular basis with SOLVENT MEK during the application.

PREPARATION OF THE PRODUCT

Mixing

Scrape component B in the bucket of component A and mix mechanically at a low speed. Take 2:1 volume ratios of the white A component and the black B component.

Mix both components until they have a homogeneous grey colour. For better mixing: place both buckets in warm water before mixing.

APPLICATION

EPILINE PROTECT is sprayed with a 1-component airless pump. Rinse the pump on a regular basis with SOLVENT MEK during the application of EPILINE PROTECT. Layer thicknesses of more than 4 mm are obtained by spraying several thinner layers on each other wet on wet. EPILINE PROTECT can also be applied manually.

FINISHING

Immediately after applying the liner, the surface can be smoothed with a spatula if a higher level of finish is expected.

APPLICATION CONDITIONS

The recommended processing temperature for substrate, environment and material is +10 °C and +35 °C.

CLEANING AND MAINTENANCE

Flush the pump with SOLVENT MEK before and after the application. Clean the used tools with SOLVENT MEK before the curing of EPILINE PROTECT. Cured products residues must be removed mechanically.

COMPLIMENTARY PRODUCTS

Cleaning solvent: SOLVENT MEK

ADVICE / FOCAL POINTS

Wear plastic gloves and safety glasses.
Ensure that the application zone is accessible and well-ventilated.

TECHNICAL DATA**APPEARANCE**

A-component	Modified epoxy resin
B-component	Polyamine hardener
Colour	Mixture A + B: Gray Component A: White Component B: Black

REACTION TIMES

Processing time after mixing	30 min
Curing time	Dustfree after 2h
Fully mechanically load	24h
Chemical load	Sewer: after 24 hour Chemical resistance liner: after 7 days

CONSUMPTION

Mixed product: layer thickness 1,35 kg/m²/mm
Apply min. 4 kg of mixed product per m²

TECHNICAL DATA

	Component A	Component B
Specific mass	1.4 kg/dm ³	1.3 kg/dm ³
Mineral content	53-58	38-42

MIXTURE		
Viscosity sp7/50t/25 °C	5.000 – 10.000 mPas	
Density	1.3-1.4 kg/dm ³	
Hardness Shore-D at 25 °C	After 2 hours	dust free
	After 3 hours	45-50
	After 4 hours	70
	After 24 hours	81
Flexural strength	78 MPa	
Tensile Strength	3-4 N/mm ²	
Adhesion to dry and wet surface	Exceeds the cohesion of the material	

CHEMICAL RESISTANCES

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

REFERENCE DOCUMENTS**PACKAGING**

EPILINE PROTECT	Component A	Component B
Set 24 kg	16 kg	8 kg

SHELF LIFE AND STORAGE

Store EPILINE PROTECT in a dry and well-ventilated storage area between +5 °C and +35 °C in the original and unopened packaging. The material has a shelf life of 24 months after production date. If in doubt, contact RESIPLAST NV and state the batch number of the product for product verification.

Dispose of contaminated packaging and residual waste in accordance with applicable regulations and legal requirements. Do not discharge into groundwater, surface water of sewers.

SAFETY PRECAUTIONS

Read the safety data sheets carefully before using EPILINE PROTECT. Ensure adequate ventilation, keep away from sources of ignition and do not smoke.

Avoid skin contact. Eye irritation and / or hypersensitivity may occur with high vapour concentration, inhalation and / or skin contact.

Do not store food and drinks in the same work space.

Always wear personal protective equipment in accordance with local regulations and legislation.

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 KorAC NV 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: 8 February 2023 1:04 pm