EPISOL® FLOORLINE SL 2K

SELF-LEVELING EPOXY RESIN BASED FLOORING 1.5 TO 2 MM

DESCRIPTION

EPISOL® FLOORLINE SL 2K is a thin, aesthetic, 2-component, self-leveling epoxy resin based flooring with a thickness of 1.5 to 2 mm.

BENEFITS

- Solvent free
- Limited layer thickness
- High wear resistance
- Mechanical strength
- Excellent flow
- High gloss
- High chemical resistance
- Easy to maintain
- Liquid tight

FIELD OF APPLICATION

EPISOL® FLOORLINE SL 2K is an epoxy resin based flooring for private and public buildings such as residential spaces, showrooms, pharmacy, offices, exhibition space, museums and is also extremely suitable for overcoating existing epoxy resin based floorings.

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
EPISOL® FLOORLINE SL 2K 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)
- Spatula, squeegee or toothed trowel
- Spiked Roller
- 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% moisture.
Before applying the primer:
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.
Always apply EPISOL® FLOORLINE SL 2K on a cured EPISOL® PRIMER layer or a cured EPISOL® FLOORLINE EGALISER layer.

PREPARATION OF THE PRODUCT

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. In the case of pigmentation on site: the pre-dosed pigment powder is slowly added to the mixture. Mix until a homogeneous mass is obtained.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

APPLICATION

Pour EPISOL® FLOORLINE SL 2K on the surface to be treated and distribute it with a spatula, squeegee or toothed trowel with triangular sew blade profile. Deaerate immediately after applying with a spiked roller.

FINISHING

After 24 to 48 hours a KORACHEM NV epoxy or polyurethane topcoat can be applied.

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 (see also "Technical Data").
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 SL 2K. 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

Cleaning solvent for tools: SOLVENT MEK.

ADVICE

Two-coloured systems can only be applied with a flat trowel and are not deaerated.
When treating a new concrete surface with
EPISOL® FLOORLINE SL 2K, it should be at least 28 days old.
We recommend using, as far as possible, the same production number for a single floor installation. This is to avoid colour differences.
The production number is printed on the packaging.

TECHNICAL DATA

APPEARANCE - COMPOSITION

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

REACTION TIMES

Processing time: 15 - 20 minutes
Walkable: after 24 hour
Full mechanical load: after 4 days
Full chemical resistance: after 7 days
Times measured at 20 °C; lower temperatures extend the curing time.

CONSUMPTION

1.65 kg/m²/mm

TECHNICAL DATA

Density	1.65 kg/dm³
Surface	Smooth
Compressive strength	>60 N/mm²
Flexural strength	>40 N/mm²
Bonding to concrete	2.6 N/mm² (Exceeds concrete cohesion)
Heat resistance	60 °C
Layer thickness	1.5 - 2 mm
Min. curing temperature Application temperature Two-coloured systems	+10 °C +15° - 30 °C +18° - 30 °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 KORACHEM NV.

CE MARKING

CE

KORACHEM NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
22	
EN 13813	
Synthetic resin floor/coating for indoor use in buildings	
Release of corrosive substances	SR
Abrasion resistance	≤ AR0,5
Bond strength	≥ B2,0
Impact resistance	≥ IR10
Reaction to fire	B_{fl}-S_1

REFERENCE DOCUMENTS

FM 78518
EMS 716699

PACKAGING

EPISOL® FLOORLINE SL 2K	Component A	Component B
Set 25 kg, coloured	22 kg	3 kg
Set 25 kg, unpigmented	21.7 kg	3 kg

For on-site pigmentation, pigment powder is available separately in 0.3 kg pack or the mixing quantity per set.

STORAGE AND SHELF LIFE

Store EPISOL® FLOORLINE SL 2K 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 KORACHEM 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 SL 2K. 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 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 Korachem 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: 9 December 2025 2:14 pm

RESIPLAST
Korachem NV is part of Koramic Chemicals
Gulkenrodestraat 3 - B-2160 Wommelgem - België
info@korachem.com - www.korachem.com - Tel.+32 3 320 02 11