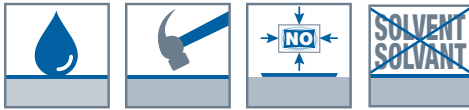


EPISOL® PU SL2K

SELF-LEVELLING POLYURETHANE CAST FLOOR 2 TO 3 MM



DESCRIPTION

EPISOL® PU SL2K is a 2-component, solvent-free, and liquid-tight polyurethane-based cast floor for indoor use, with high mechanical properties.

BENEFITS

- Limited layer thickness
- Excellent flow
- Permanently elastic
- High impact resistance
- High walking comfort
- Low VOC emission
- High chemical resistance
- Easy maintenance
- Impermeable
- Shrink-free
- Solvent-free

FIELD OF APPLICATION

EPISOL® PU SL2K is used for residential and industrial resin-bonded interior floors and is always covered with one of the following coloured final coats or top coats from the RESIPLAST range: EPISOL® PU 43 OP MAT, EPISOL® PU 43 OP SF, EPISOL® PU TOPCOAT WBN-P.

Examples for residential applications are: shops, homes, offices, hospitals, schools, garages.

Examples for industrial applications are: industry with light traffic, food industry, breweries, workshops and showrooms, warehouses.

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

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 system 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 EPISOL® PU SL2K.

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 the resin system to be applied.

REQUIRED TOOLS

- Mixer with spindle (min. 300-800 rpm)
- Flat trowel, notched trowel
- Point roller
- Mixing buckets

PREPARATION OF THE SUBSTRATE

EPISOL® PU SL2K is applied to a cured primer layer or on a cured leveling layer (see separate product sheets) or existing polyurethane or epoxy floors.

Primer layers, levelled surfaces or other epoxy resin floors that are older than 2 days must be roughened.

Always apply the products to 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 overcoated that do not meet the requirements as described in the product data sheets of the primers (flatness, compressive strength, tensile strength, parts that do not adhere well,...) must be treated or removed and repaired in accordance with a correct method and with products that are complementary to the substrate and to the top layer to be applied. Remove loose parts by brushing well and remove dust with an industrial vacuum cleaner.

PREPARATION OF THE PRODUCT

Stir the base (component A) evenly before use. Add the full amount of hardener (component B) and mix mechanically (300-800 rev/min) until both components are homogeneous.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing and application equipment.

APPLICATION

Pour EPISOL® PU SL2K out and spread with a flat trowel or notched trowel to a layer thickness of 2 to 3 mm. Use a notched trowel with triangular saw blade profile.

EPISOL® PU SL2K doesn't need to be de-aerated if the substrate preparation has been carried out correctly. If the surface is not perfectly executed, the cast floor can show defects and after 15 to 45 minutes it must be de-aerated with a point roller.

FINISHING

After 24 to 48 hours, a top layer of EPISOL® PU 43 OP MAT (SF) can be applied in 1 or 2 layers or EPISOL® PU TOPCOAT WBN-P. Please refer to the product sheets available separately.

APPLICATION CONDITIONS

Make sure the surface is clean and dry. The recommended processing temperature for the surface, the surroundings and the material is 15 to 25 °C.

Maximum relative humidity is 80%.

Dew point: The temperature of the substrate and of the not yet fully hardened product must be at least 3 °C higher than the dew point. Avoid condensation on the surface from the moment preparations start until the products have completely cured. Ensure adequate ventilation and low relative humidity during curing.

CLEANING AND MAINTENANCE

Please refer to the product sheets available separately.

COMPLIMENTARY PRODUCTS

- Cleaning solvent for tools: MEK SOLVENT
- EPISOL® primer and/or scratch coat
- Top coat: EPISOL® PU 43 OP MAT (SF), EPISOL® PU TOPCOAT WBN-P

ADVICE / FOCAL POINTS

Synthetic resin floors of unknown composition can only be overcoated after an adhesion test has been carried out and the results of this test are positive.

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	Modified polyol
B-component	Polyurethane hardener
Colour	Upon request

REACTION TIMES

Processing time after mixing: ± 25 min

Can be walked on and overcoated: after curing for 24 hours

Can be mechanically loaded : after 48 hours

Complete chemical resistance: after 7 days (chemical resistance see top coats)

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

CONSUMPTION

1.4 kg/m² per mm layer thickness.


TECHNICAL DATA

Specific mass (EN ISO 2811-1)	1.40 ± 0.05 kg/dm ³
Hardness shore D (EN ISO 868)	55 - 65
Heat resistance	60 °C
Surface	Smooth
Stretch at break	160%
Wear resistance Taber (CS10-1000 cycle – 1kg)	≤5 mg
Mixing ratio	Pre-dosed: component A 21.1 kg and component B 3.9 kg
Curing	Non-shrinking

CHEMICAL RESISTANCES

The chemical resistance depends on the floor system used and is mainly determined by the top layer. Ask for more information and consult the individual product sheets of the top coats EPISOL® PU 43 OP MAT (SF) and consult the EPISOL® PU TOPCOAT WBN-P.

CE MARKING

	
KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
12	
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} -s1

REFERENCE DOCUMENTS



PACKAGING

EPISOL® PU SL2K	Comp A	Comp B
Set 25 kg	21.1 kg	3.9 kg

STORAGE AND SHELF LIFE

Store EPISOL® PU SL2K in a dry, well ventilated storage area between 5 and 35 °C.

Shelf life: 12 months.

If in doubt, contact RESIPLAST NV and provide the batch number on the package. Do not let the product get in contact with ground water, surface water or sewage systems. Dispose of contaminated packaging and remnants according to legal regulations.

SAFETY PRECAUTIONS

Carefully read the safety instructions before using EPISOL® PU SL2K. Products have a characteristic odour when being applied. Ensure there is sufficient ventilation, stay away from ignition sources and do not smoke. Avoid contact with skin. Eye irritation and/or sensitivity may occur during heavy vapour concentrations, inhalation and/or skin contact. Do not keep food products (food, beverages) in the same workspace. Always wear personal protective equipment according to local guidelines and regulations. Gloves and safety goggles 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 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: 20 December 2023 2:01 pm