

EPISOL® DESIGNTOP SF

SEALER AND TOPCOAT FOR EPOXY MORTARS AND MORTAR FLOORS



DESCRIPTION

EPISOL® DESIGNTOP SF is a thixotropic, colourless, 2-component epoxy sealer and topcoat for epoxy mortars and mortar floors. Can be used as an anti-slip topcoat in industrial kitchens, stairs and public spaces.

ADVANTAGES

- Odourless
- Solvent free
- Limited layer thickness
- High wear resistance
- Mechanical strength
- Glossy
- Good UV resistance
- High chemical resistance
- Easy to maintain
- Light anti-slip
- Liquid tight
- Can be coloured
- Can be used horizontally and vertically

FIELD OF APPLICATION

EPISOL® DESIGNTOP SF is an epoxy sealer and topcoat for epoxy mortars and mortar floors and can be used as an anti-slip topcoat in industrial kitchens, stairs and public spaces.

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 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 that they are not following 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) Divider-wiper
- Paint roller suited for epoxy based products. Masking tape.

PREPARATION OF THE SUBSTRATE

EPISOL® DESIGNTOP SF is placed on epoxy resin mortar and mortar floor systems that are no older than 7 days. Epoxy resin mortars and mortar floor systems that are older than 7 days must be roughened, etched or primed.

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. Top layer Remove any loose parts by brushing properly and remove dust with an industrial vacuum cleaner.

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.

Optionally, 2.5 % pigment powder can now be added to the mixture and then mixed again homogeneously.

PREPARATION OF THE EQUIPMENT

Always work with clean processing and mixing equipment.

APPLICATION

As a pore filler

Distribute EPISOL® DESIGNTOP SF with a squeegee. Work crosswise with light pressure so that all pores are optimally filled.

EPISOL® DESIGNTOP SF can be finished with a pre-moistened two-component paint roller.

Apply a second coat after 4 to 12 hours.

Anti-slip

After applying the first layer of EPISOL® DESIGNTOP SF, dry granulate is broadcasted. Apply the second coat after 4 to 12 hours. This structure provides a light surface structure with increased anti-slip that is easy to maintain.

FINISHING

EPISOL® DESIGNTOP SF can optionally be finished 24 hours later with EPISOL® PU 43 ON MAT for improved light resistance and wear resistance.

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 before the curing of EPISOL® DESIGNTOP SF. 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

- Optional: Pigment powder and/or broadcasting granulate
- Cleaning solvent for tools: SOLVENT MEK

ADVICE

Avoid raising the temperature (sun, underfloor heating, ...) of the substrate during the application and curing of EPISOL® DESIGNTOP SF.

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	Thixotropic modified epoxy resin
B-component	Polyamine hardener
Colour	Transparent, can be coloured

REACTION TIMES

Processing time after mixing: 25 minutes.
Trafficable After 12 hours
Full mechanical load After 4 days
Full chemical resistance After 7 days
Times measured at 20 °C; lower temperatures extend the curing time.

CONSUMPTION

How much is used depends on the roughness of the ground.
On mortar floors with granules 0.8-1.2 mm: 500 g/m².


TECHNICAL DATA

Density	1.1 kg/dm ³
Colours	Transparent, can be coloured
Surface	Smooth or anti-slip
Compressive strength	>24 N/mm ²
Flexural strength	>15 N/mm ²
Tensile strength	>7 N/mm ²
Heat resistance	60 °C

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

	
KORACHEM NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
12	
EN 13813	
Synthetic resin floor/coating for indoor use in buildings	
Reaction to fire	NPD
Release of corrosive components	SR
Water permeability	NPD
Abrasion resistance (Taber)	<10 mg (CS10-1000 tr-1 kg)
Bond strength	B 1.5
Impact resistance (DIN EN ISO 6272)	>10 Nm
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

REFERENCE DOCUMENTS



PACKAGING

EPISOL® DESIGNTOP SF	COMP. A	COMP. B
Set 3.5 kg	2.37 kg	1.13 kg
Set 7 kg	4.74 kg	2.26 kg

STORAGE AND SHELF LIFE

Store EPISOL® DESIGNTOP SF 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® DESIGNTOP SF. 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 products (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 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: 12 June 2025 2:29 pm