

PRODUCT INFORMATION

ESKANOL VE LINING

PRODUCT DESCRIPTION

ESKANOL VE LINING is a fibreglass mat reinforced; laminate lining based on vinyl ester resin. Due to the excellent mechanical properties, **ESKANOL VE LINING** can cover cracks up to 0.3 mm according to DIBt (German Institute for Construction Technology) guidelines.

COATING LAYERS CONSUMPTION

The laminate lining consists of the one-component primer **ESKANOL G4 PRIMER**, the two-component **ESKANOL VE LINING** laminate layer reinforced with two layers of 300 g/m² fibreglass mats, and the two-component **ESKANOL VE LINING** sealing coat.

Optionally, **ESKANOL VE TOPCOAT** can be applied on the sealing. The overall dry film thickness is built up depending on the present chemical and thermal loads and can be up to approx. 2.0 - 3.0 mm.

FIELDS OF APPLICATION

The laminate system **ESKANOL VE LINING** is designed for the protection of concrete components, sumps, floors and collecting basins against organic and inorganic acids, oxidizing acids, lye and vast majority of the organic solvents.

FEATURES

- Resistance to continuous operating temperatures up to +80°C (liquids)
- Excellent chemical resistance
- Outstanding adhesion to concrete
- Excellent mechanical properties
- Good crack-bridging properties

CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

SUBSTRATE

Substrates are components made of concrete, screed or plaster. Components to be coated shall be designed and manufactured in accordance with EN 14879-1. In addition, DIN 1045 must also be observed.

SURFACE PRE-TREATMENT

Appropriate action shall be taken to prepare the concrete surfaces; dry and free of dust and free of contaminants such as oil or grease. The concrete shall have minimum tensile strength of 1.5 N/mm² and minimum compressive strength of 25 N/mm². The residual moisture content must not exceed 4%.

ENVIRONMENTAL CONDITIONS

Throughout the coating process, the temperatures of the substrate and coating materials shall be maintained within the range specified by SKO. All surfaces shall be maintained at a temperature at least 3K above the dew point in order to prevent condensation.

APPLICATION

During the application of the product, the application instruction must always be observed.

Immediately after **ESKANOL VE LINING** laminate layer is rolled onto the primer applied surface, the first 300 g/m² fibreglass mat is immersed into the coating, further soaked with the resin solution and pressed onto the substrate with lamination rollers. The second 300 g/m² fibreglass mat is placed onto the uncured layer, soaked with the resin solution and also pressed with a lamination roller. Finally the **ESKANOL VE LINING** sealing layer is blister-free rolled on the top. Optionally, **ESKANOL VE TOPCOAT** can be applied on the **ESKANOL VE LINING** sealing layer by rolling (wall) or trowelling (floor).

Note: During application, the lined surface should be shaded from direct or indirect sunlight whenever possible.

MIXING RATIO

Laminate Layer	Parts by Weight	Parts by Volume
ESKANOL VE SOLUTION	100	3.00
ESKANOL M50 HARDENER	2	0.06

Sealing	Parts by Weight	Parts by Volume
ESKANOL VE SOLUTION	100	3.00
ESKANOL M50 HARDENER	2	0.06

Topcoat Wall	Parts by Weight	Parts by Volume
ESKANOL VE SOLUTION	100	3.00
ESKANOL M50 HARDENER	2	0.06

Topcoat Floor	Parts by Weight	Parts by Volume
ESKANOL VE SOLUTION	100	3.00
ESKANOL M50 HARDENER	2	0.06
ESKANOL PO POWDER	66	2.00

CONSUMPTION PER COAT

Layer	Product	Coverage [g/m ²]
Primer	ESKANOL G4 PRIMER	ca. 250
1 st Laminate Layer	ESKANOL VE SOLUTION	ca. 1100
	Fibreglass mat 300 g/m ²	ca. 330
2 nd Laminate Layer	ESKANOL VE SOLUTION	ca. 1100
	Fibreglass mat 300 g/m ²	ca. 330
Sealing	ESKANOL VE SOLUTION	ca. 400
Topcoat*	ESKANOL VE TOPCOAT (Wall)	ca. 250
	ESKANOL VE TOPCOAT (Floor)	ca. 800

* Optionally

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POT LIFE / WORKING TIME [min]

Product	15 °C	20°C	30°C
G4 PRIMER	ca. 30	ca. 20	ca. 15
ESKANOL VE SOLUTION	ca. 60	ca. 30	ca. 15
ESKANOL VE TOPCOAT	ca. 40	ca. 30	ca. 20

RECOAT TIME (20°C)

Layer	Min. [h]	Max. [h]
G4 PRIMER	ca. 0.5	ca. 10
LAMINATE LAYER	ca. 5	ca. 24
SEALING	ca. 5	ca. 24

CLEANING

Clean all equipment with **ESKANOL CLEANER** immediately after use.

SAFETY MEASURES

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

PACKING UNITS

The products are supplied in the following standard package sizes:

Product	Size	Article No.
E-Fibreglass mat 300 g/m ²	-	10371
ECR-Fibreglass mat 300 g/m ²	-	10367
ECR-Fibreglass mat 300 g/m ²	-	10367
ESKANOL M50 HARDENER	1 kg	10098
ESKANOL M50 HARDENER	5 kg	10097
ESKANOL M50 HARDENER	10 kg	10096
ESKANOL M50 HARDENER	25 kg	10095
ESKANOL VE SOLUTION	25 kg	10067
ESKANOL VE SOLUTION	205 kg	10066
ESKANOL G4 PRIMER	20 kg	10104
ESKANOL G4 PRIMER	200 kg	10103
ESKANOL VE TOPCOAT	25 kg	10075
ESKANOL PO POWDER	25 kg	10391
ESKANOL CLEANER	14 kg	10002
ESKANOL CLEANER	155 kg	10000

STORAGE

The products must be stored in a cool and dry place, away from direct sunlight. At the specified storage temperatures a shelf life of the products is given of at least for the following periods:

Product	Temperature	Shelf Life
ESKANOL M50 HARDENER	5 - 20°C	6 Months
ESKANOL CLEANER	5 - 25°C	60 Months
ESKANOL VE SOLUTION	5 - 20°C	6 Months
ESKANOL VE TOPCOAT	5 - 20°C	6 Months
ESKANOL PO POWDER	-	24 Months
ESKANOL G4 PRIMER	5 - 20°C	12 Months

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof. In addition, the DIN 7716 must be observed.

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Technical Data	Standard	Unit	Value
Compressive Strength (laminate layer)	EN ISO 604 (ASTM D695)	N/mm ²	63 - 68
Modulus of Elasticity (Bend Test)	EN ISO 178 (ASTM D790)	N/mm ²	7000
Min. Adhesion Strength Concrete	EN ISO 4624 (ASTM D7234)	N/mm ²	1.5*
Viscosity (resin solution)	EN ISO 2555 (ASTM D2196)	mPa·s	ca. 300
Linear Coefficient of Thermal Expansion	DIN 53752 (ASTM C531)	1/K	27 - 30 x 10 ⁻⁶
Tensile Strength	EN ISO 527 (ASTM C531)	N/mm ²	ca. 50
Max. Operating Temperature Liquids	-	°C	+80

* Depending on the concrete strength // **Note:** The indicated temperatures are dependent on the present load and may vary

Information given in the fact sheet above corresponds to the current knowledge available to us regarding our products at the time of its drafting and is intended as a guideline for informational purposes. However, because of the multiple possibilities regarding possible applications, processing and on site conditions, any information given in the fact sheet above is not legally binding, in particular, without being limited to, such information shall not be interpreted as a warranty of merchantability or of fitness for a particular purpose. Customer therefore is advised to conduct its own testing or make an inquiry with our technical department before ordering. We reserve the right to change the product at any time, in particular, without being limited to, minor changes because of advancements in technology. If by way of exception, the information given in the fact sheet above is incorporated by reference into any contract concluded with us under German Law, such information, shall only be interpreted as determining the specific requirements of the contractual products as set out in § 434 BGB (German Civil Code) and shall not be interpreted as constituting a guarantee of condition.

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