

## PRODUCT INFORMATION

### ESKANOL PU 25

#### PRODUCT DESCRIPTION

**ESKANOL PU 25** is a two-component, coloured and solvent containing polyurethane topcoat.

#### COATING LAYERS CONSUMPTION

**ESKANOL PU 25** consists of the **ESKANOL PU 25 COMP. A** and the **ESKANOL PU 25 COMP. B**. Depending on the application, the overall dry film thickness is 150 - 400 µm.

#### FIELDS OF APPLICATION

**ESKANOL PU 25** is used to create a light-fast floor sealing. **ESKANOL PU 25** is ideal for high-load, forklift-used surfaces.

#### FEATURES

- Light-fast surface
- Visco-plastic
- High abrasion resistance
- Good scratch resistance

#### CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

#### SUBSTRATE

Components to be coated shall be designed and manufactured in accordance with EN 14879-1. Before start of coating work, the suitability of the surface preparation measures according EN 14879-1 must be checked and recorded.

#### SURFACE PRE-TREATMENT

Concrete surfaces must be covered with a suitable primer and if necessary with an additional top coat prior to application. Any unevenness on the surface needs be flattened. 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/mm<sup>2</sup>. The residual moisture in the concrete shall not exceed 4%.

A mechanical treatment by abrasive blasting, high-pressure water blasting or shot blasting is recommended. After milling, flame cleaning or bush hammering the concrete surface, an abrasive blasting is also required.

#### ENVIRONMENTAL CONDITIONS

The specified environmental conditions must be observed during surface preparation and coating work and be tested and recorded according EN 14879-3.

Environmental Conditions	Value
Relative Humidity	≤ 80%
Application Temperature	+10°C up to +30°C
Dew Point Distance	min. 3K

#### APPLICATION

The execution of the coating work is only permitted, if the requirements of „Surface Pre-treatment“ and „Environmental Conditions“ are met.

**ESKANOL PU 25 COMP. A** must be thoroughly stirred before use. Following this the 2 components **ESKANOL PU 25 COMP. A** and **ESKANOL PU 25 COMP. B** must be

intensively mixed in the specified mixing ratio. After the mixing the material must be allowed to settle for approximately 5 minutes and then subsequently shortly mixed again.

**ESKANOL PU 25** is applied with solvent resistant, fluff free brushes, short hair roller or lamb skin rollers. It is important to ensure that **ESKANOL PU 25** is applied thinly without any pooling. Any pools of material that occur will harden very slowly. In the case that **ESKANOL PU 25 COMP. A** is left open this will lead to skin formation on the surface. The skin can be dissolved in the **ESKANOL PU 25 COMP. A**.

In the case of the **ESKANOL PU 25 COMP. B** a reaction will occur with moisture in the air firstly causing a higher viscosity and then to a skin formation which cannot be dissolved and eventually to hardening of the component. After removal of product from the containers these are to be resealed airtight.

#### WORK TOOLS

The following tools are essential for the application:

- Stirrer (max. 300 r/min.)
- Measuring cup & Mixing vessels
- Brush
- Short hair roller / lamb skin roller
- Miscellaneous (safety glasses, rubber gloves etc.)

#### MIXING RATIO

Add **ESKANOL PU 25 COMP. B** to **ESKANOL PU 25 COMP. A** according the specified mixing ratio and stir the mixture with a low-speed agitator thoroughly (recommendation: twin shaft stirrers agitating in opposite directions). Make sure that both two components are mixed thoroughly. It is important that stirring reaches the wall and bottom of the container as well, in order to achieve a uniform mixture. Then pour the mixture into another container and mix further. The final composition of the mixture must be uniform and free of flow marks prior to application. **ESKANOL PU 25** is formulated as a ready-mixed product and therefore the mixture should not be diluted or filled.

ESKANOL PU 25	Parts by Weight	Parts by Volume
<b>ESKANOL PU 25 KOMP. A</b>	100	100
<b>ESKANOL PU 25 KOMP. B</b>	25	30

#### CONSUMPTION PER COAT

Product	Substrate	Coverage [g/m <sup>2</sup> ]
<b>ESKANOL PU 25</b>	non-absorbent	ca. 150 - 250
<b>ESKANOL PU 25</b>	absorbent	ca. 300 - 400

#### POT LIFE / WORKING TIME [min]

Product	20°C
<b>ESKANOL PU 25</b>	ca. 60 - 180

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### RECOAT TIME (20°C)

Product	Min. [h]	Max. [h]
ESKANOL PU 25	6	24

### CURING (at 50% relative humidity)

Product	10 °C	20°C	30°C
Mechanical load	72 h	48 h	24 h

### 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.
ESKANOL PU 25 COMP. A	25 kg	10640
ESKANOL PU 25 COMP. A	10 kg	10642
ESKANOL PU 25 COMP. B	20 kg	10641
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 PU 25 COMP. A	5 - 20°C	6 Months
ESKANOL PU 25 COMP. B	5 - 20°C	6 Months
ESKANOL CLEANER	5 - 25°C	60 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.

Technical Data	Unit	Value
Abrasion according Taber Abraser (ASTM D4060)	mg	43
Density	g/cm <sup>3</sup>	ESKANOL PU 25 COMP. A: 1.20 – 1.30 ESKANOL PU 25 COMP. B: 1.1
Elongation at Break	%	35
Tensile Stress at Break	N/mm <sup>2</sup>	16
E-Modulus from tensile test	N/mm <sup>2</sup>	138
Solids Content	%	ca. 75
Hardness	Shore D	67
Viscosity	mPas	ca. 600
Tear Strength according Graves	kN/m	24

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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