

PRODUCT INFORMATION

ESKANOL PU 23

PRODUCT DESCRIPTION

ESKANOL PU 23 is a two-component, solvent containing, coloured, highly opaque, and semi-gloss (when cured) spread coating based on acrylic polyurethane resin for applications on concrete-bound, reactive resin bound, or on asphalt-bound substrates.

COATING LAYERS CONSUMPTION

ESKANOL PU 23 consists of the two-component primer **ESKANOL E PRIMER** and the two-component **ESKANOL PU 23** spread coating. Depending on the application, the overall dry film thickness is 150 - 400 µm.

FIELDS OF APPLICATION

ESKANOL PU 23 is used as a protective liner on the indoor and outdoor areas with moderate mechanical and chemical stress, where special suitability is required like good scratch resistance, weather resistance and / or strong light-fade resistance (light fastness).

Main fields of applications are, for example, road marks, production and industrial halls, workshops, warehouses, and food businesses. A primer layer (except the applications on cement grouts) is always necessary.

FEATURES

- Glossy surface
- High toughness and resilience properties
- High abrasion resistance
- Good wear properties (scratch resistance)
- Good chemical resistance against sea and waste water, alkalis, dilute acids, salt solutions, mineral oils, lubricants and fuels, as well as a wide range of solvents

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.

CONCRETE

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. 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 23 is poured onto the properly prepared substrate, spread with a rubber grout spreader and is evenly rolled out with crosswise strokes using a short or medium pile roller. On rough surfaces, use drip grids to get rid of excess material and spread evenly with short or medium pile rollers with crosswise strokes.

For larger areas, make sure that the working times of the material are followed to minimize colour differences and application marks. The application should be performed at a constant or gradually decreasing temperature in order to avoid blistering due to the expansion of air in the substrate. Good ventilation after the application and throughout the course of curing has to be ensured. The surface must be protected from direct contact with water during the entire curing phase.

WORK TOOLS

The following tools are essential for the application:

- Stirrer (max. 300 r/min.)
- Measuring cup & Mixing vessels
- Grout spreader
- Smoothing trowel
- Miscellaneous (safety glasses, rubber gloves etc.)

MIXING RATIO

Add the whole quantity of **ESKANOL PU 23 COMP. B** into the **ESKANOL PU 23 COMP. A** 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 23** is formulated as a ready-mixed product and therefore the mixture should not be diluted or filled.

ESKANOL E PRIMER	Parts by Weight	Parts by Volume
ESKANOL E SOLUTION	100	2.00
ESKANOL EF HARDENER 49 S	50	1.00

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CONSUMPTION PER COAT

Product	Substrate	Coverage [g/m ²]
ESKANOL PU 23	Smooth	ca. 150 - 250
ESKANOL PU 23	Rough	ca. 300 - 700

POT LIFE / WORKING TIME [min]

Product	15°C	20°C	30°C
ESKANOL PU 23	ca. 55 - 70	ca. 35 - 45	ca. 20 - 25

RECOAT TIME (20°C)

Product	Min. [h]	Max. [h]
ESKANOL PU 23	ca. 8 - 12	ca. 24

CURING (at 50% relative humidity)

Product	10 °C	20°C	30°C
Mechanical load	ca. 10 Days	ca. 7 Days	ca. 3 Days

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 E SOLUTION	25 kg	10013
ESKANOL E SOLUTION	200 kg	10012
ESKANOL EF HARDENER 49 S	12.5 kg	10022
ESKANOL EF HARDENER 49 S	200 kg	10021
ESKANOL PU 23 COMP. A	25 kg	10035
ESKANOL PU 23 COMP. B	5 kg	10626
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 EF HARDENER 49 S	5 - 20°C	12 Months
ESKANOL PU 23 COMP. A	5 - 20°C	12 Months
ESKANOL PU 23 COMP. B	5 - 20°C	12 Months
ESKANOL E SOLUTION	5 - 20°C	12 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
Density	g/cm ³	1.25
Colour	-	RAL 7032. Further colours on request
Solid Content	%	100
Viscosity	mPa·s	ESKANOL PU 23 COMP. A: 850 – 1200 / ESKANOL PU 23 COMP. B: 90 - 130 Mix Viscosity: 1200

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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