# PRODUCT INFORMATION
# ESKANOL E COATING

## PRODUCT DESCRIPTION
**ESKANOL E COATING** is a two-component, solvent-free, pigmented epoxy resin based coating which doesn't contain any fillers.
Even at low temperatures, **ESKANOL E COATING** penetrates very well into the fine and small pores and capillaries of the substrate.

## COATING LAYERS CONSUMPTION
The two-component **ESKANOL E COATING** consists of the **ESKANOL E SOLUTION** and the **ESKANOL E HARDENER 49 S**.

## FIELDS OF APPLICATION
**ESKANOL E COATING** is mainly applied as a roller and brush coating.

## FEATURES
- Outstanding adhesion onto tiles, onto metallic substrates like aluminium, steel, zinc, brass etc, onto existing coatings as well as various plastics
- Formulated with moist acceptable fillers and mortar systems
- Low viscosity
- Strong capillary activity

## 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
**C-STEEL**
All contaminants, including non-visible detectable contaminants, must be removed in accordance with DIN TR 55684 and EN ISO 8502.
Non-alloyed steel surfaces shall be abrasive blasted to "Near White Metal" in accordance with EN ISO 12944-4. A surface preparation degree of SA 2½ (SSPC-SP 10; NACE No. 2) as specified in EN ISO 8501-1 and a “medium (G)” roughness degree as specified in EN ISO 8503-2 must be achieved. The primer must be applied immediately after the blasting.
**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 content must not exceed 4%.

## ENVIRONMENTAL CONDITIONS
The specified environmental conditions must be observed during surface preparation and brick lining 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 E COATING** is evenly rolled onto the substrate with crosswise strokes using a short or medium pile roller. 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
- Roller
- Miscellaneous (safety glasses, rubber gloves etc.)

## MIXING RATIO
Add the whole quantity of **ESKANOL E HARDENER 49 S** into the **ESKANOL E SOLUTION** 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.

| Coating | Parts by Weight | Parts by Volume |
|---|---|---|
| **ESKANOL E SOLUTION** | 100 | 2.00 |
| **ESKANOL E HARDENER 49 S** | 50 | 1.00 |

# ESKANOL E COATING

## CONSUMPTION PER COAT

| Product | Substrate | Coverage [g/m²] |
|---|---|---|
| **ESKANOL E COATING** | Smooth | ca. 250 - 400 |
| **ESKANOL E COATING** | Rough | ca. 300 - 500 |

## POT LIFE / WORKING TIME [min]

| Product | 15°C | 20°C | 30°C |
|---|---|---|---|
| **ESKANOL E COATING** | ca. 80 - 100 | ca. 40 - 50 | ca. 20 - 25 |

## RECOAT TIME (20°C)

| Product | Min. [h] | Max. [h] |
|---|---|---|
| **ESKANOL E COATING** | ca. 12 -16 | 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 E SOLUTION RAL** | 25 kg | 10014 |
| **ESKANOL E HARDENER 49 S** | 12,5 kg | 10722 |
| **ESKANOL E HARDENER 49 S** | 200 kg | 10721 |
| **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 E SOLUTION** | 5 - 20°C | 12 Months |
| **ESKANOL E SOLUTION RAL** | 5 - 20°C | 12 Months |
| **ESKANOL E HARDENER 49 S** | 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 | Standard | Unit | Value |
|---|---|---|---|
| Density | DIN EN ISO 2811 (ASTM D1475) | g/cm³ | 1.12 |
| Hardness Shore A | DIN EN ISO 4624 (ASTM D4541) | - | 78 - 84 |
| Min. Adhesion Strength | DIN EN ISO 48-4 (ASTM D2240) | N/mm² | > Concrete break |
| Colour | - | - | RAL 7032. Further colours on request |
| Solid Content | ISO 23811 / DIN EN ISO 3251 | % | 100 |
| Viscosity | DIN EN ISO 3219 / DIN EN ISO 489 | mPa·s | **ESKANOL E SOLUTION**: ca. 750 – 1000<br>**ESKANOL E HARDENER 49 S**: ca. 400 - 550<br>Mix Viscosity: ca. 600 |



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