

POLEPOX COAT 814

TWO-COMPONENT, EPOXY-BASED SELF-LEVELING COATING

GENERAL CHARACTERISTICS

POLEPOX COAT 814 is epoxy-based, self-leveling, two-component paint.

- Creates colored, easy-to-clean flooring without joints, not requiring maintenance and meeting **health standards**.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Prevents floorings from creating dust, strengthening their durability and resistance.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for painting industrial power-troweled floorings, mosaics, cement surfaces, decks, water baths, and silos.
- Areas of application: food industries, car workshops, parking areas, waste treatment plants, production plants, hospitals for antibacterial use etc.

TECHNICAL DATA

Basis:	two-component epoxy resin
Appearance:	viscous liquid
Colors:	Available in 12 basic colors and on request from RAL color card.
Viscosity (A+B):	2750 ± 450 mPa•s at 23°C
Density (A+B):	1,550 ± 0,003 gr/cm ³
Application time:	approx. 40 min at 23°C
Final strength:	after 7 days at 23°C
Compressive strength (A+B):	55 N/mm ² , 7 days at 23°C
(ASTM D 695)	
Flexural strength (A+B):	33 N/mm ² , 7 days at 23°C
(Din 1164)	

Temperature for the application and drying of the material:	12 – 35°C
Hardness according to SHORE D:	78 ± 2
Walkability:	after 2 days
Adhesive strength:	4,3 ± 0,3 N/mm ² (breaking of concrete)

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 28 days
Moisture content:	below 4%

PREPARATION - APPLICATION

Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- Treatment of the surface with grinding machine (mosaic machine, milling machine, scarifier, sandblasting or rotor machine) depending on the thickness of the final coating.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with **POLEPOX-PR 824** (former EPOXY PRIMER). In case of power-troweled surfaces when there is a need for a penetrating material, it is suggested the application of the **POLEPOX-PR 824** (former EPOXY PRIMER), with dilution with 50% organic solvent for deeper penetration, in two layers. Then, application of another or more layers, with undiluted **POLEPOX-PR 824** (former EPOXY PRIMER), until the surface is saturated and a film is created. Consumption: 250-600 gr/m², depending on the absorption of the underlay.
- After hardening of the primer (2-12 hours depending on the ambient temperature) and within 24 hours, follows the application of **POLEPOX COAT 814**.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener.
- The epoxy mixture is poured on the floor and spread using rolls. The tool which to be used depends on the desirable thickness.
- Following the application of the **POLEPOX COAT 814**, the self-leveling layer should be rolled using a special spiky-roller in order to release any possibly entrapped air and avoid the formation of bubbles.
- For the creation of a completely non-slip surface, it is recommended on a still fresh layer the dredging of dry, quartz sand 0,1-0,4 mm or 0,4-0,8 mm depending on the desired anti-slipping effect. Consumption of quartz sand: approx. 4 kg/m². After hardening of **POLEPOX COAT 814**, any loose grains are being removed using a high suction vacuum cleaner. Finally a finishing layer of **POLEPOX COAT 814** is applied for the creation of an acid proof, easy to clean, non-slip surface. Consumption: 0,5-0,7 kg/m². depends on the right preparation of the underlay and use of the material.

CONSUMPTION

- 500-700 gr/m² as paint.
- 1 kg/m²/0,7mm as paint for light circulation.
- 1,5 kg/m²/1mm as paint for medium circulation.

APPLICATION TOOLS

Spotty rollers with 2.1mm spots or paint rollers, depending the desired thickness. Tools should be cleaned with **EPOXY SOLVENT 132** immediately after use.

PACKAGING

Supplied in sets of 25 kg (two drums). Components A and B have the fixed weight proportion.

STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 28 °C.

REMARKS

- Working time of **POLEPOX COAT 814** decreases when ambient temperature rises.
- In case old floors are going to be laid or a long period of time (12 hours for summer and 24 hours for winter) interferes between successive layers, the surface must be thoroughly cleaned and ground prior to application of a new layer.
- For lining thickness 2-4 mm, it is recommended the use of **POLEPOX FLOOR 817** (former POLAT HIGH RESISTANT FLOOR).
- After hardening, **POLEPOX COAT 814** is completely safe for health and meets all requirements for food industries, hospitals, etc.

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.