

## POLEPOX COAT 814

## HARDCOAT SYSTEM



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

- ✓ Colored, industrial hard coating, suitable for indoor areas with medium and medium-hard traffic.
- ✓ 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 troweled floorings, mosaics, cement surfaces, decks, bio-cleanings, water baths.

**Areas of application: food industries, car workshops, parking areas, bio-cleanings, production plants, hospitals for antibacterial use supermarkets, labs, warehouses etc.**

### Preparation – Application

**Applied only on dry, smooth concrete surfaces(over 30 days old) and protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc.** The success in the application has also to do with the preparation of the subfloor.

- ✓ **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- ✓ Priming of the surface with **POLEPOX-PR 824** in two or more layers, until the surface is saturated and a film is created. Consumption: 250-600 gr/m<sup>2</sup>, depending on the absorption of the underlay(smooth or rough, old or new).

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- ✓ 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 proportion and the epoxy mixture is poured on the floor and spread using rolls. The tool which to be used depends on the desirable thickness of the flooring.
- ✓ 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.

## Important Remarks

- ✓ During summer or during temperatures over 40 degrees, ideal time for the application of **POLEPOX COAT 814** is between 22:00 and 09:00 and temperature less than 40°C, while in the winter, the minimum bearing temperature during application and drying should be over 10°C.
- ✓ 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/m<sup>2</sup>. After hardening of **POLEPOX COAT 814**, any loose grains are being removed using a high suction vacuum cleaner. Then a finishing layer of **POLEPOX COAT 814** is applied for the creation of an acid proof, easy to clean, non-slip surface with consumption: 0,7-1 kg/m<sup>2</sup>.

## Substrate

**Concrete surface must be power-trowelled without cracks and must be smooth with a slope of 0.7-1% and humidity under 4% in 10cm depth of concrete.**

Concrete must also be **dry at least for 40 days** and then the application takes place if there is no rising humidity for the sub-floor. Before the application takes place, there must be proper grinding of the surface by a grinding machine to open the pores accordingly and also a measurement by special instrument to measure humidity on the surface and in 10cm under the surface.

Generally concrete is a risky sub-floor and there may be problems with rising humidity, especially in areas where the sea level is really high and when the sea is close or in areas near greenery.

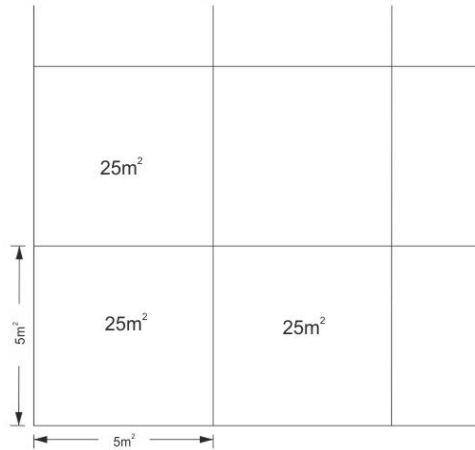
**Always make expansion joints in large areas of concrete, in order to avoid uncontrollable cracks and failures.** Joints should be every 25 square meters creating a grid of 5x5 meters or close to that.

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<b><u>SUBSTRATE REQUIREMENTS</u></b>	Concrete quality	at least C20/25
	Age:	at least 40 days
	Moisture content:	below 4%

**Colors:** Following colorchart.

# KDF

Sports Flooring Systems & Building Materials  
50 YEARS OF EXPERIENCE



The colors may vary slightly from the original due to digital representation.

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