

POLEPOX FLOOR 817

HARDFLOOR SYSTEM



POLEPOX FLOOR 817 is an epoxy-based, self-leveling, three-component flooring.

Colored, industrial hard flooring suitable for indoor dry floors with heavy 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 covering floorings, mosaics, cement surfaces, decks, bio-cleanings.

Recommended for food industries, car workshops, parking areas, bio-cleanings, production plants, hospitals for antibacterial use, warehouses, supermarkets, labs etc.

Preparation – Application

Applied only on dry, smooth concrete surfaces(over 1 month old),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 a mosaic machine, with sandblast 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**. It is suggested the application of the **POLEPOX-PR 824** in two or more layers until the surface is saturated and a film is created. Consumption: 250-600 gr/m², depending on the absorption and the type of the underlay (smooth power-troweled concrete or other type).
- ✓ After hardening of the primer (2-12 hours depending on the ambient temperature) and within 24 hours, follows the application of **POLEPOX FLOOR 817**.

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- ✓ Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions and then the whole quantity of component C (quartz sand) is gradually added into the mixture under continuous stirring until a uniform epoxy mortar is formed.
- ✓ The epoxy mortar is poured on the floor and spread on the desired thickness using a notched trowel or special rolls and following the application of the **POLEPOX FLOOR 817**, 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 FLOOR 817** 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 of epoxy self-leveling coating the dredging of dry, quartz sand with a particle size 0,1-0,4 mm or 0,4-0,8 mm or 0,8-1,25 mm depending on the desired anti-slipping effect. Consumption of quartz sand: approx. 4 kg/m². After hardening of **POLEPOX FLOOR 817**, 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: 0,8-1 kg/m².

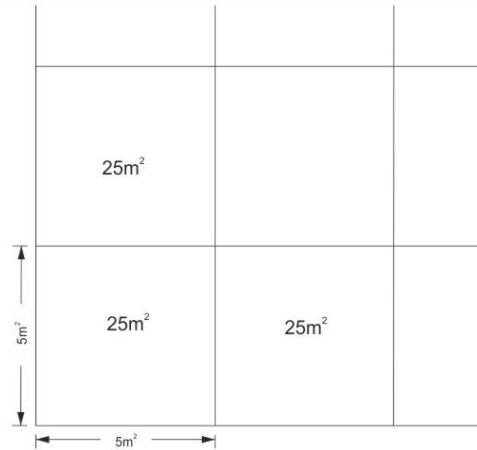
Substrate

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.



<u>SUBSTRATE REQUIREMENTS</u>	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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