

POLEPOX COAT 827-W

WATER-EPOXY PLASTICOAT TWO-COMPONENT

EPOXY-BASED, SELF-LEVELING PAINT FOR FLOORINGS DILUTED IN WATER

GENERAL CHARACTERISTICS

POLEPOX COAT 827-W is epoxy-based, self-leveling, two-component flooring diluted in water.

- Ideal for applications in food factories, hospitals for antibacterial use, production areas, workshops, parking areas and generally in areas with high demands and special uses.
- It can be applied also in surfaces with arising humidity only if first **POLEPOX FLOOR 828-CW** (former WATER-EPOXY HIGH-RESISTANT FLOOR) is applied in thickness of 2mm.
- Renders 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.

TECHNICAL DATA

Basis:	two-component epoxy resin
Appearance:	viscous liquid
Colors:	Available in 12 basic colors and on request from RAL color card for orders more than 300kg.
Viscosity (A+B):	3400 ± 80 mPa•s at 23°C
Density (A+B):	1,372 ± 0,002 gr/cm ³
Mixing proportion (A:B):	59,9:40,1 by weight
Application time:	approx. 40 min at 23°C
Final strength:	after 7 days at 23°C
Compressive strength (A+B): (ASTM D 695)	35 N/mm ² , 7 days at 23°C
Flexural strength (A+B): (Din 1164)	22 N/mm ² , 7 days at 23°C
Temperature for the application and drying of the material:	12 - 35°C
Hardness according to SHORE D:	74 ± 2

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Walkability:	after 2 days
Adhesive strength:	3,40 ± 0,34 N/mm ² (breaking of concrete)

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 28 days, unless POLEPOX FLOOR 828-CW (former WATER-EPOXY HIGH-RESISTANT FLOOR) is applied

PREPARATION - APPLICATION

Applied only on stable surfaces. 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 826-W** (former WATER-EPOXY PRIMER). For the first two layers, application of **POLEPOX-PR 826-W** (former WATER-EPOXY PRIMER) diluted with 50% **WATER** for deeper penetration. Then, application of another or more coatings, with undiluted **POLEPOX-PR 826-W** (former WATER-EPOXY PRIMER), until the surface is saturated and a film is created. Consumption: 250-600 gr/m², depending on the absorption of the underlay.
- The next day, after the primer has dried and within 24 hours, follows the application of **POLEPOX COAT 827-W**.
- 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.
- For the first layer, **POLEPOX COAT 827-W** is used as it is or diluted with water up to 7% by weight.
- 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 827-W**, 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 with a particle size 0,1-0,4mm or 0,4-0,8mm depending on the desired anti-slipping effect. Consumption of quartz sand: approx. 4 kg/m². After hardening of **POLEPOX COAT 827-W**, any loose grains are being removed using a high suction vacuum cleaner. Finally a finishing layer of **POLEPOX COAT 827-W** is applied for the creation of an acid proof, easy to clean, non-slip surface. Consumption: 0,6-1kg/m².

CONSUMPTION

- 1 Kg/m²/0,7mm as paint for light circulation.
- 1,4 Kg/m²/1mm as paint for middle circulation.

APPLICATION TOOLS

Nappy rolls or rubber rolls of 1,7 or 2,5 mm and brushes depending the desirable thickness. Tools should be cleaned with **WATER** immediately after use.

PACKAGING

Supplied in packages of 20 Kg (two drums). Components A and B have the fixed weight proportion.

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STORAGE

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

REMARKS

- Working time of **POLEPOX COAT 827-W** decreases when ambient temperature rises.
 - In case old floors are going to be laid or a long period of time interferes between successive layers (twelve hours in summer or twenty four hours in winter), 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 828-CW** (former WATER-EPOXY HIGH-RESISTANT FLOOR).
 - After hardening, **POLEPOX COAT 827-W** is completely safe for health and meets all requirements for food industries.
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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 POLAT S.A.

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