

# POLEPOX THIXOCOAT 816

(former EPOXY TWO COMPONENT PAINT FOR CONTACT WITH FOOD)

## GENERAL CHARACTERISTICS

POLEPOX THIXOCOAT 816 is epoxy-based, solvent free, self-leveling, two-component paint.

- Safe for use in areas where contact with food is possible or for coating water storage tanks.
- It is solvent free not requiring special ventilation during application in small confined areas e.g. rooms, tanks etc.
- Creates colored, waterproof, easy-to-clean flooring or wall coating, 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, metal-surfaces, decks, bio-cleanings, water baths, and silos.
- Areas of application: food industries, breweries, bottling factories, oil refineries, car workshops, parking areas, bio-cleanings, 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 for orders more than 300kg.
Viscosity (A+B):	8000 ± 250 mPa•s at 23°C
Density (A+B):	1,504 ± 0,003 gr/cm <sup>3</sup>
Mixing proportion (A:B):	80,6:19,4 by weight
Application time:	approx. 20 min at 23°C
Final strength:	after 7 days at 23°C
Compressive strength (A+B): (ASTM D 695)	72 N/mm <sup>2</sup> , 7 days at 23°C
Flexural strength (A+B): (Din 1164)	38 N/mm <sup>2</sup> , 7 days at 23°C
Temperature for the application and drying of the material:	12 - 35°C
Hardness according to SHORE D:	80 ± 2

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Walkability: after 24 hours

Adhesive strength: 4,0 ± 0,2 N/mm<sup>2</sup> (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.

#### CONCRETE SURFACES

- Treatment of the surface with a mosaic machine or lap (for vertical surfaces).
- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with **POLEPOX-PR 824** (former EPOXY PRIMER). In case of troweled surfaces when there is a need for a penetrating material, it is suggested the application of two layers of **POLEPOX-PR 824** (former EPOXY PRIMER), 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.
- After hardening of the primer (2-12 hours depending on the ambient temperature) and within 24 hours, follows the application of **POLEPOX THIXOCOAT 816**.

#### STEEL SURFACES

- **Good** cleaning of the surface from previous coatings using shot blasting, rotary wire brushes or appropriate abrasive.
- Cleaning of the surface from grease and residues using solvent or strong detergents.

#### APPLICATION

- 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 applied on the floor or wall using rolls or brushes. The tool which to be used depends on the substrate (floor or wall) as well as on the desirable thickness.
- Following the application of the **POLEPOX THIXOCOAT 816**, 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.

### CONSUMPTION

- 1,5 kg/m<sup>2</sup>/1mm.

### APPLICATION TOOLS

Brushes, rubber rolls of 1,7 and 2,5mm, depending the desired thickness. Tools should be cleaned with **EPOXY SOLVENT 132** immediately after use.

### PACKAGING

Supplied in packages of 20 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.

### REMARKS

- Working time of **POLEPOX THIXOCOAT 816** decreases when ambient temperature rises.
- In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and ground prior to application of a new layer.
- In small confined areas where there is no sufficient ventilation, it is recommended the use

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of **POLEPOX-PR 832-SF** (former EPOXY PRIMER WITHOUT SOLVENTS).

- After treatment of metal surfaces, **POLEPOX THIXOCOAT 816** should be applied before re-oxidization.

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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.**

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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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