

# EPOXY COAL TAR 211

## EPOXY-BASED, THREE COMPONENT, REPAIRING STUCCO FOR CRACKS, DAMAGES, FLOORING JOINTS

### GENERAL CHARACTERISTICS

- EPOXY COAL TAR 211** is three-component stucco consisting of epoxy resins and coal tar.
- Suitable for filling joints and leveling holes on cement surfaces (thickness 1mm-10cm).
  - Provides strong adhesion, elasticity and high mechanical and chemical resistance to acid solutions.
  - Areas of application: bio-cleanings, soil pipes, bridge construction, asphalt surfaces (e.g. airports).
  - Applied easily with stainless steel spatula, only on dry surfaces.

### TECHNICAL DATA

Basis:	two-component epoxy resin, aggregates
Appearance:	viscous paste
Color:	black
Viscosity (A+B+C):	6000 ± 400 mPa•s at 23°C
Density (A+B+C):	1,658 ± 0,009 gr/cm <sup>3</sup>
Bulk density (C):	1515 ± 5 gr/lt
Mixing proportion (A:B+C):	20:30:50 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)	45 N/mm <sup>2</sup> , 7 days at 23°C
Flexural strength (A+B): (Din 1164)	40 N/mm <sup>2</sup> , 7 days at 23°C
Temperature for the application and drying of the material:	10 - 35°C
Hardness according to SHORE D:	80 ± 2
Walkability:	after 2 days in thickness of 1 cm in 23°C
Adhesive strength:	> 3 N/mm <sup>2</sup> (breaking of concrete)

### SUBSTRATE

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## 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.

- **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 TWO COMPONENT). In case of troweled surfaces when there is a need for a penetrating material, it is suggested the application of the **POLEPOX-PR 824** (former EPOXY PRIMER TWO COMPONENT), with dilution with 50% **EPOXY SOLVENT 132** for deeper penetration, in two layers. Then, application of another or more layers, with undiluted **POLEPOX-PR 824** (former EPOXY PRIMER TWO COMPONENT), 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.
- When primer starts to dry and while is still sticky (2-8 hours depending on the ambient temperature), follows the application of **EPOXY COAL TAR 211**.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a 300-600 rpm mixer for 3-4 min until a uniform color is obtained. 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. Afterwards, the whole quantity of component C (aggregates) is gradually added into the mixture under continuous stirring until a uniform mixture is formed.
- The epoxy paste is applied in the desired thickness using a stainless steel spatula.

## CONSUMPTION

- Approximately 1,7 kg/m<sup>2</sup>/1mm.

## APPLICATION TOOLS

Stainless steel spatula, trowel. Tools should be cleaned with **EPOXY SOLVENT (132)** immediately after use.

## PACKAGING

Supplied in packages of 36 kg (two drums, one bag). Components A, B and C have the fixed weight proportion.

## STORAGE

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

## REMARKS

- Working time of **EPOXY COAL TAR 211** decreases when ambient temperature rises.
- In case **POLEPOX-PR 824** (former EPOXY PRIMER TWO COMPONENT) dries, surface must be locally roughed with the use of a mosaic machine or sandpaper in order to achieve the ideal adhesion for the material.
- After hardening, **EPOXY COAL TAR 211** is completely safe for health.

## 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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