

EP LASTIK

Bi-component elastic mortar for under-tile waterproofing

CE	CONCRETE PROTECTION EN 1504-2 (C)
	PRINCIPLES PI-MC-IR
CE	LIQUID APPLIED WATER IMPERMEABLE PRODUCTS BENEATH CERAMIC TILING EN 14891
	CLASS CMO2P
CON FOR MITY	REACTION TO FIRE EN 13501-1
	CLASS Bfl - s1

CE marking:

- EN 1504-2 (C) • Principles: PI-MC-IR
- EN 14891 • Class: CMO2P

Certifications:

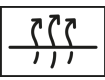
- EN 13501-1 • Class: Bfl-s1



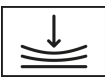
TECHNICAL FEATURES



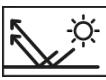
WATERPROOF



BREATHABLE



ELASTIC



UV RESISTANT

FIELD OF APPLICATION



IN/OUTDOOR



WALLS

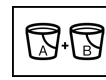


FLOORS



SIDEWALKS

APPLICATIONS



2 PART



TROWEL



Bfl-s1



FROST



SLOW CURING



WALKABLE



ROOFS



POOLS

Description

EP LASTIK is a water-based bi-component elastic mortar consisting of:

- component A: premixed cementitious product;
- component B: aqueous dispersion of polymers and additives;

EP LASTIK is applicable both horizontally and vertically.

After maturation, EP LASTIK gives rise to a solid film totally impermeable to water, resistant to UV rays and with good elasticity.

EP LASTIK is resistant to the aggression of de-icing salts, sulphates and chlorides and protects the support from carbon dioxide attack (carbonation).

CE Marking

► EN 1504-2

EP LASTIK meets the principles defined by EN 1504-9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for use and systems") and the requirements of EN 1504-2 ("Concrete surface protection systems") for the class:

→ *PI-MC-IR*

- For Principle 1 (PI) - Protection against penetration risks: 1.3 Coating (C), ZA.1d.
- For Principle 2 (MC) - Moisture control: 2.2 Coating (C), ZA.1e.
- For Principle 8 (IR) - Increasing Resistivity.

► EN 14891

EP LASTIK satisfies the requirements stated in the EN 14891 standard "Liquid-applied waterproofing products for use beneath ceramic tiling bonded with adhesives". Designation:

→ *CMO2P*

- Cement-based waterproof product applied in a liquid state (CM).
- With improved crack-bridging capability at ultra-low temperature (-20°C), (O2).
- Resistant to contact with chlorinated water (e.g. for use in swimming pools), (P).

EP LASTIK

Certifications

► EN 13501-1

EP LASTIK has been subjected to the "Reaction to Fire" test according to EN 13501-1.

Classe di reazione al fuoco: Bfl – s1

Colour

EP LASTIK is available in the GREY finish.

Field of application

EP LASTIK is used in the interventions of:

- waterproofing of bathrooms, showers, balconies, terraces, swimming pools, etc. before laying ceramic coatings (see also NORTIG 15 and NORTIG 15 FIBRE Technical Data Sheets);
- waterproofing of concrete tanks for the containment of water (see also BETONGUAINA BASEMENT Technical Data Sheet);
- elastic coating of concrete structures (e.g. prefabricated panels), in particular when they have an inadequate concrete cover thickness or are subject to high bending with the risk of micro-cracks;
- protection of cracked plaster or concrete, against the penetration of water and aggressive agents;
- protection of road and rail viaducts against carbon dioxide penetration;
- Protection of concrete surfaces that may come into contact with seawater and de-icing salt solutions.

Advantages

- EP LASTIK is easy to knead and apply.
- Coatings made with EP LASTIK are flexible at low temperature (down to -20°C).
- EP LASTIK is weatherproof and UV-resistant.
- EP LASTIK manifests excellent adhesion to concrete supports.
- EP LASTIK has a high curing speed.

General preparation of the laying surface

For all substrates use the normal diligence of the state of the art by carrying out a thorough cleaning and eliminating inconsistent parts, oils, greases, paints and everything that can prevent a correct adhesion of the product.

Specific preparation of the laying substrate

► Balconies and terraces

→ *Treatment of STABILIZED CRACKS:*

It is intended *stabilized* a crack that has been formed in the pouring phase of the screed and does not give rise to continuous opening and closing movements. In this case, a simple sealing with epoxy resin is provided.

- Widen the crack using a diamond grinding wheel.
- Vacuum the dust thoroughly.
- Fill the crack with NORPHEN RICRETE (or PLAST EPO).

→ *Treatment of ACTIVE CRACKS:*

A moving crack means a crack that continuously tends to open and close with significant movement. In this case, "stitching" must be carried out.

- Prepare steel rebar pieces with a diameter of 8 - 10 mm and a length of 30 - 50 cm.
- Use a diamond blade grinder to cut grooves perpendicular to the crack, spaced approximately 50 cm apart from each other.
- The depth of the grooves will be approximately 2 cm and the width suitable for the diameter of the steel rebar used.
- Vacuum the dust from the grooves.
- Fill the grooves with PLAST EPO.

EP LASTIK

- Insert the steel rebars into the resin-filled grooves.
- Saturate the groove with PLAST EPO until completely filled.

→ *Treatment of vertical flaps (COVES)*

- Apply a coat of NORPHEN FONDO IGRO with a brush along the edge of the wall-floor junction and for about 3-4 cm vertically and horizontally.
- Wait for the solvent to evaporate (about 10-15 minutes).
- Apply BETONSEAL MS 2.0 with a round-tipped trowel to create a shell with a bending radius of about 15 mm.
- Fresh on fresh, proceed with the installation of EP LASTIK.

→ *Treatment of ISOLATION JOINTS (or CONTROL JOINTS) on screeds and industrial concrete:*

- They can be stitched using the same method as ACTIVE CRACKS (see specific Section) if they are sufficiently cured and most of the drying shrinkage has already occurred (approx. 1 month for screeds and 3 months for concrete).

→ *Treatment of EXPANSION JOINTS:*

They cannot be blocked due to their functional purpose. They must be carried through to the surface as described below.

- Create a recess of approximately 1 mm on both sides of the joint using a grinder equipped with a diamond disc (generally the disc has a diameter of 125 mm).
- Thoroughly vacuum the dust.
- Apply one coat of NORPHEN FONDO IGRO by brush.
- Wait for the solvent to evaporate (10 - 15 minutes).
- Insert an extruded foam joint backing rod (FILTENE).
- Fill the entire recess with BETONSEAL MS 2.0.
- Fresh on fresh, proceed with the installation of EP LASTIK.

→ *Slope modification:*

Use GROVE MASSETTO and GROVE PRIMER ECO as described in their respective Data Sheets (see).

→ *Treatment of tiled surfaces:*

- abrade with a diamond grinding wheel (type BOSCH GBR 14 CA), or wash with NORDECAL FORTE (see Technical Data Sheet).

► **Concrete structures**

- Remove cement latex where it is present with specific abrasion.
- Pressure wash.

► **Plasters**

- Only use plasters that have been left to mature for at least 1 or 2 weeks, depending on the thickness.
- If necessary, consolidate with diluted SW SOLID (1 part by weight of SW SOLID (AB) plus 8 – 10 parts by weight of water) and wait 2 days.

Product preparation

- Pour EP LASTIK (B) into a suitable serving container.
- Stir EP LASTIK (A) by mixing thoroughly with a mixer at low speed (500 – 600 rpm).
- Continue mixing until you get a homogeneous dough without lumps.

Product application

► **Product application**

- Moisten absorbent surfaces with water.
- Proceed with the application of EP LASTIK, which can be carried out by trowel or mechanically.

→ *Application by trowel:*

EP LASTIK

- apply a first thin skim coat on the substrate;
- Fresh on fresh: apply a second coat to obtain a total thickness of at least 2 mm.

→ Mechanical Application:

Use a plaster machine with a lance to shave, having the foresight to apply a maximum thickness of 2 mm per coat.

- Full curing under normal conditions: 5 – 7 days.

► Laying tiles on waterproofed surfaces with EP LASTIK

The laying of tiles requires a specific adhesive depending on the surface on which it will take place.

→ terraces and swimming pools: BETON-H 1 (class C2TE-S2, see Data Sheet), or MONOTACK H BOND (class C2TE-S2, see Data Sheet).

→ balconies: MONOTACK FLEX (class C2TE-S1, see Technical Data Sheet), or MONOTACK SUPER with BETONLATEX additives (class C2T-S1 or -S2, depending on the percentage of BETONLATEX added, see Technical Data Sheet).

- The joints can be sealed with MONOTACK COLORFILL or MONOTACK EPOSEAL W (epoxy grout class RG).
- For sealing expansion or visible splitting joints, use NORDSEAL MS (see Technical Data Sheet and Colour Chart).

► Use of a fiberglass reinforcement mesh

In case EP LASTIK is used for the waterproofing of: balconies, terraces, swimming pools, tanks and particularly stressed areas (including joint/soffit areas), insert a fiberglass reinforcement mesh with 4 x 4.5 mm mesh size (RETE DI VETRO 160, see Technical Data Sheet) between the first and second coat.

- Apply the first coat of EP LASTIK.
- Lay the reinforcing mesh on the freshly applied product.
- Shave the mesh flush.
- Wait until the layer has hardened and apply a second layer of EP LASTIK to finish.

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
To obtain a film thickness of 1 mm	1,7	1,8	kg/m ²	(1)

(1) To achieve water tightness against a 1 m water column pressure (0.1 bar), a minimum thickness of 2 mm is required.

Tool cleaning

- Fresh product: cleaning with water (also hydrowashing).
- Hardened product: mechanical removal, specific paint strippers or heat gun (preferred).

Useful tips for laying

- Do not apply on substrates that are too hot due to the high summer temperature.
In this case, before proceeding, wet the support with water to lower the temperature and place preferably in the afternoon.
- Do not apply to frozen surfaces or surfaces that are feared to freeze within 24 hours of installation.
- Do not apply EP LASTIK on sight in the pool.
- Do not apply more than 2 mm thick in one coat.
- Read the Safety Data Sheet carefully before use.

Technical Data

EP LASTIK

► PRODUCT IDENTIFICATION DATA		value
Appearance (Component A)	-	Grey powder
Appearance (Component B)	-	Milky white liquid
Density mass in pile (Comp. A), EN 1097-3	kg/L	1,20 ± 0,1
Density at 23°C (component B), EN ISO 2811-1	kg/L	1,02 ± 0,05
► APPLICATION DATA AND FINAL PERFORMANCE		value
Appearance (Mixture A+B)	-	Grey grainy paste
Density at 23°C (mixture A+B), EN ISO 2811-1	kg/L	1,70 ± 0,07
Maximum thickness applicable in a single coat	mm	2
Application temperature	°C	+5 to +35
Set to foot traffic (at 23°C, 50% RH)	hours	24
Set to foot traffic (at 15°C, 50% RH)	hours	36
Minimum maturation time for tile laying	days	7
Operating temperature	°C	-20 to +80
Elongation at break (traction) at +23 °C, thickness = 2.8 mm, 10 mm/min, maturation 28 days at +20°C; 50%RH, EN ISO 527-3	-	(28 ± 4)%
Adhesion on concrete, maturation 28 days at +20°C; 50%RH and 21 days in water, EN 1542	MPa	0,8 ± 0,1
Water impermeability under pressure (1.5 bar for 7 days of positive thrust), EN 14891 – A.7	-	No penetration
► TECHNICAL DATA IN ACCORDANCE WITH EN 1504-2		value
Carbon dioxide permeability, air thickness SD(CO2) equivalent, material thickness 1.80 mm, EN 1062-6	m	467 ± 13
Water vapour permeability, SD equivalent air thickness, material thickness 1.75 mm, EN ISO 7783	m	4,6 ± 0,3 Class I
Capillary absorption and water permeability, EN 1062-3	kg/(m ² ·√h)	0,0090 ± 0,0005
Direct traction adhesion, EN 1542	MPa	1,0 ± 0,2 Substrate breakage'
Reaction to fire (Euro-class), EN 13501-1	-	Bfl – s1
► TECHNICAL DATA IN ACCORDANCE WITH EN 14891		value
Adhesion with initial traction, EN 14891 – A.6.2	MPa	0,60 ± 0,03
Tensile adhesion durability after thermal aging, EN 14891 – A.6.5	MPa	0,61 ± 0,05
Tensile adhesion durability after contact with water, EN 14891 – A.6.3	MPa	0,55 ± 0,04
Tensile strength after contact with lime water, EN 14891 – A.6.9	MPa	0,53 ± 0,03
Tensile adhesion durability after freeze-thaw cycles, EN 14891 – A.6.6	MPa	0,55 ± 0,05
Tensile adhesion durability after immersion in chlorinated water, EN 14891 – A.6.8	MPa	0,53 ± 0,03
Crack-bridging capacity at -23°C, EN 14891 – A.8.2	mm	2,91 ± 0,08
Crack-bridging capacity at -20 °C, with reinforcement GLASS MESH 160, EN 14891 – A.8.3	mm	0,79 ± 0,02
Crack-bridging capacity at -5 °C, EN 14891 – A.8.3	mm	1,40 ± 0,09

Product storage

- Comp. A: 12 months in the original closed packaging (PAPER BAG), in a dry, covered environment, away from sunlight and at a temperature between +5°C and +35°C. The product is resistant to moisture.
- Comp. B: 24 months in the original closed packaging, in a dry, covered environment, away from sunlight and at a temperature between +5°C and +35°C. The product is frost-proof.

Packaging

EP LASTIK

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
-	(A+B) - 32.5 kg	NO	-	A = 25 kg (bag) B = 7.5 kg (jerry can)	-

ADR legend:

NO = NON-DANGEROUS goods

P* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

Si = DANGEROUS Goods

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It is the user's responsibility to verify in advance, also through suitable tests, the suitability of the product for the intended use, compatibility with the substrate, appropriate environmental application conditions, and the execution of the installation according to workmanship standards, assuming all liability arising from the use of the product and the final result of the works.

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EDITION

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