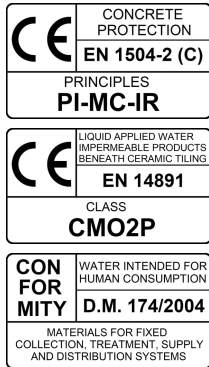


BETONGUAINA BASEMENT

Two-component cementitious waterproofing for underground structures



CE marking:

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

Certifications:

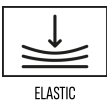
- Contact with drinking water • D.M. 174/2004 (Italian decree)



TECHNICAL FEATURES



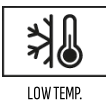
WATERPROOF



ELASTIC



FROST



LOW TEMP.

FIELD OF APPLICATION



IN/OUTDOOR



SIDEWALKS

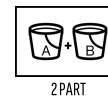


FOUNDATIONS

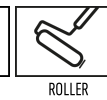


FAST CURING

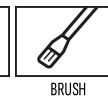
APPLICATIONS



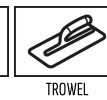
2 PART



ROLLER



BRUSH



TROWEL

Description

BETONGUAINA BASEMENT is a two-component cementitious waterproofing agent for underground structures.

Component A is a polymer in water dispersion and special additives, component B is a mixture of hydraulic binders, selected aggregates and additives.

BETONGUAINA BASEMENT, after drying, produces a tenacious and elastic film with high characteristics of impermeability and resistance to water by continuous contact (in immersion).

BETONGUAINA BASEMENT is suitable for waterproofing concrete or masonry tanks suitable for the containment of drinking water, according to Italian Ministerial Decree 174-2004.

CE Marking

► EN 1504-2

BETONGUAINA BASEMENT 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.

BETONGUAINA BASEMENT

► EN 14891

BETONGUAINA BASEMENT meets the principles defined by EN 14891 "Liquid applied waterproofing products for use under adhesive bonded ceramic tiles." Designation:

→ CMO2P

- Watertight cement-based 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, (P).

BETONGUAINA BASEMENT exhibits excellent crack bridging resistance (remarkable crack resistance capacity even at very low temperature) according to EN 1062-7, falling at -20°C into class A3 according to the static method (A) and class B.4.1 (reinforced with NYCON F) according to the dynamic method (B).

Certifications

► Contact with drinking water

BETONGUAINA BASEMENT is a product suitable for waterproofing concrete or masonry tanks designed to contain drinking water, according to Italian Ministerial Decree 174/2004:

- Reports no. 16/000501810 (global migration) and no. 16/000344460 (potability of the water) issued by CHELAB SRL.

Field of application

BETONGUAINA BASEMENT is used for waterproofing artifacts and surfaces subjected to positive hydrostatic thrust.

Below are the most frequent applications.

- Underground structures and foundation walls in concrete and masonry.
- Substrates and artifacts exposed to contact with water.
- Temporary waterproofing.
- Sidewalks.
- Small balconies.
- Tanks, canals and structures also intended for the containment of drinking water.
- Showers and walls in damp environments.
- It can be applied in wet environments in accordance with DIN 18534, in crack class R1-I and for water exposure classes W0-I to W3-I on both walls and floors. The minimum thickness of the dried film shall not be less than 2 mm.
- Planters – with DERADIX additives – in structures where proper water drainage is guaranteed.

Advantages

- BETONGUAINA BASEMENT can be applied to masonry where there are large irregularities (such as concrete block walls or concrete walls with large alveoli).
- BETONGUAINA BASEMENT matures regularly even on very high thicknesses.
- Both components of BETONGUAINA BASEMENT are packaged in a single oval bucket that serves as a dough bucket and facilitates the use of the 25 cm roller in application.
- BETONGUAINA BASEMENT can also be used on partially damp substrates.
- BETONGUAINA BASEMENT is suitable for contact with drinking water, according to Ministerial Decree 174-2004.
- BETONGUAINA BASEMENT matures quickly, with short waiting times between first and second coat.
- BETONGUAINA BASEMENT is flexible down to -20°C.
- BETONGUAINA BASEMENT adheres to various types of support (concrete, terracotta, brick, plasterboard, EPS, XPS).
- BETONGUAINA BASEMENT can be covered with tiles for direct bonding.

BETONGUAINA BASEMENT

General preparation of the laying surface

- Remove any residues of release agent or cement latex with water washing.
- Remove the iron spacers and restore the surface with GROVE RAPIDO.
- Shell with GROVE RAPIDO along the entire length of the edge between the slab and the wall.

Specific preparation of the laying substrate

► Interventions on degraded structures

- Remove damaged parts and restore them with GROVE series products.

► On non-stick substrates (water-repellent boards, non-water-blasted concrete, etc.) that are perfectly dry

- Apply BETON TACK as an adhesion promoter (primer).

Product preparation

- Open the bucket using the tear-off tab.
- Remove the two bags of part A and the two bags of part B from the bucket.
- Pour the liquid contained in both bags of Part A into the bucket.
- Gradually stir in the contents of the two bags of Part B.
- Mix thoroughly for about 2 minutes with a low-speed mechanical stirrer.
- Remove the semi-wet powder from the sides and bottom of the container, using a trowel or spatula if necessary.
- Continue mixing for another 60 seconds until the dough is homogeneous and free of lumps.
- Let the product rest for about 2 minutes, stir and proceed with the application.

NOTE: the packaging in KIT 2A + 2B allows the preparation of half dose (10.5 kg) leaving the packages of the two remaining components unchanged and intact.

→ additives with DERADIX ANTIRADICE (only for applications not in contact with drinking water):

- Mix well BETONGUAINA BASEMENT comp. A;
- add DERADIX ANTIRADICE to BETONGUAINA BASEMENT comp. A (dosage: 1% by weight of DERADIX ANTIRADICE on the total weight of BETONGUAINA BASEMENT (A+B));
- mix carefully until the additive is completely incorporated;
- proceed with the addition of comp. B as described in the previous paragraph.

Product application

BETONGUAINA BASEMENT must be applied in two coats using a roller, trowel or brush.

- Moisten the substrate before application, avoiding water stagnation.
- Apply the first coat, taking care to wet and soak the substrate completely to obtain a coverage of uniform appearance and thickness.
- In high temperature conditions, if the roller or brush tends to drag or "tear" the product due to excessive drying speed, moisten the substrate more.
- Do not add water to the A+B dough under any circumstances.
- After 6-8 hours, apply the second coat.

► Protection of waterproofed structures with BETONGUAINA BASEMENT

BETONGUAINA BASEMENT must be protected against rain for the first 12 hours after application (depending on the season).

The possible effect of leaching is clearly visible as the film has poor internal cohesion and takes on a light gray color very different from the normal dark gray color typical of a product matured correctly.

- The use of plastic sheeting to shelter fresh product from rain prevents runoff, but compromises deep curing of the applied film (impairing final water resistance) unless limited to the time strictly necessary.

BETONGUAINA BASEMENT can be applied up to temperatures close to +1°C.

- Check that there is no ice (even in a very thin layer) on the substrate before proceeding.

Foundation walls treated with BETONGUAINA BASEMENT must be mechanically protected, before burial.

For this purpose, the following can be used:

- Non-woven fabric (TNT) of adequate thickness and weight.

BETONGUAINA BASEMENT

• Expanded polystyrene panels (XPS or EPS) in direct contact with the applied product.
In both cases, a dimpled membrane must be installed between the non-woven fabric or the panels and the backfill soil.

BETONGUAINA BASEMENT must be protected against prolonged exposure to sunlight.

• If you plan to bury the waterproofed structure with BETONGUAINA BASEMENT long after the product has ripened, it must be protected with blackout sheets.

► *Special processes for use on drinking water tanks*

Upon reaching full maturity (according to the suggested waiting times) we will proceed with some washing cycles before filling the tank with drinking water.

- 2-3 thorough washing of the entire surface with pressurized water. Or, alternatively:
- 2 successive fillings with drinking water leaving the tank full for 24/48 hours before removing the water.

In all cases, at the end of washing, before final filling:

- Completely remove standing water from the tank.

► *Waterproofing in damp environments*

In accordance with DIN 18534, the accessories (tape, internal and external corners, ...) in thermoplastic elastomer of the BB SHOWER LINE series are available for waterproofing joints and special points with BETONGUAINA BASEMENT.

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
For a minimum dry thickness of 1.4 mm and maximum 1.9 mm	2,2	3,0	kg/m ²	

Tool cleaning

- Fresh product: cleaning with water (also hydrowashing).
- Hardened product: mechanical removal and/or soaking in solvents (acetone, nitro thinner or synthetic thinner).

Useful tips for laying

- Do not alter or modify BETONGUAINA BASEMENT by adding water, cement, aggregates, latex or thinner.
- If the tile is glued directly to the coating of BETONGUAINA BASEMENT, use BETON-H 1 specific adhesive. Seal the gap between the skirting board and the tile with BETONSEAL MS 2.0.
- The addition of DERADIX, an anti-root additive, is not suitable for applications of BETONGUAINA BASEMENT in contact with drinking water.
- Read the Safety Data Sheet carefully before use.

Technical Data

► PRODUCT IDENTIFICATION DATA		value
Density (A+B) at 23 °C, 50 %RH, EN ISO 1675	kg/L	1,65 ± 0,02
Brookfield apparent dynamic viscosity (23°C / 50% RH; ASTM#5 spindle, 40 rpm), EN ISO 2555	mPa·s	9000 ± 1000

BETONGUAINA BASEMENT

► APPLICATION DATA AND FINAL PERFORMANCE		value
Mixing ratio by weight (A:B)	-	1 : 2
Application temperature	°C	from +1 to +40
Working time (after mixing A+B, at 20°C)	min	45
Operating temperature	°C	-20 to +60
Set to foot traffic (after the second coat, at 20°C)	hours	8
Full curing time (2 coats, at 20°C)	days	3
Water impermeability (1000 mm water column, time 24 hours), applied at 2.2 kg/m ² - 1.4 mm, EOTA TR003	-	Exceeded
Resistance to reverse hydrostatic pressure, UNI 8298-8. After application on the support of NORDCEM PRIMER (150 g/m ²) and overlapping of 2 coats of BETONGUAINA BASEMENT within 24 h.	bar	1 (equal to a 10 m water column)
Resistance to reverse hydrostatic pressure, UNI 8298-8. After application on the NORDCURE support (150 g/m ²) and overlapping of 2 coats of BETONGUAINA BASEMENT within 5 min.	bar	4 (equal to a 40 m water column)
Elongation at break (traction) at +23°C, without reinforcement, thickness = 1.15 mm, 20 mm/min., EN ISO 527-3	-	(118 ± 9)%
Adhesion for direct traction, maturation 7 days at +20°C / 50%RH + 21 days in water, EN 1542	MPa	0,80 ± 0,09
► TECHNICAL DATA IN ACCORDANCE WITH EN 1504-2		value
Water vapour permeability, SD equivalent air thickness, thickness 1.85 mm, EN ISO 7783	m	9.8 ± 0.4 (class II)
Water vapour permeability, μ , thickness 1.85 mm, EN ISO 7783	-	5530 ± 230
CO ₂ permeability, air thickness equivalent SD(CO ₂), without reinforcement, thickness 1.10 mm, EN 1062-6	m	320 ± 30
Capillary absorption and water permeability, EN 1062-3	kg/(m ² ·√h)	0,04 ± 0,01
Direct traction adhesion, EN 1542	MPa	0,87 ± 0,05
Dynamic crack bridging at -20°C thickness 1.85 mm, EN 1062-7 method B (BETONGUAINA BASEMENT reinforced with NYCON F).	class	B4.1
Static crack bridging at -20°C, thickness 1.9 mm, EN 1062-7 method A	mm	0,90 ± 0,03 (class A3)
Classification as per EN 1504-2	-	PI (1.3) - MC (2.2) - IR (8.2)
► TECHNICAL DATA IN CONFORMITY TO EN 14891		value
Initial tensile adhesion with C2 adhesive, EN 14891 – A.6.2	MPa	≥ 1
Water impermeability under pressure (1.5 bar for 7 days of positive thrust), EN 14891 – A.7	-	No penetration
Tensile adhesion durability after contact with water with adhesive C2, EN 14891 – A.6.3	MPa	≥ 0,5
Tensile adhesion durability after thermal aging with adhesive C2, EN 14891 – A.6.5	MPa	≥ 0,5
Tensile adhesion durability after freeze-thaw cycles, EN 14891 – A.6.6	MPa	≥ 0,5
Tensile adhesion durability after contact with lime water with adhesive C2, EN 14891 – A.6.9	MPa	≥ 0,5
Crack-bridging capacity at +23°C, EN 14891 – A.8.2	mm	2,10 ± 0,05
Crack-bridging capacity at -20°C, EN 14891 – A.8.3	mm	1,20 ± 0,03
Classification as per EN 14891	-	CMO2P

Product storage

• A+B KIT in bucket: 12 months in the original closed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +5°C and +35°C.

BETONGUAINA BASEMENT

- Part A in plastic tank: 24 months in the original sealed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +5°C and +35°C.
- Part B in plastic bag: 12 months in the original sealed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +5°C and +35°C.
- Protect the product against frost.

Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
-	kit (2A+2B) - 21 kg	NO	24 kit	A = 7 kg (2 spout pouches) B = 14 kg (2 bags)	-
-	(A+B) - 36 kg	NO	36 bags + 36 jerrycans	A = 12 kg (jerrycan) B = 24 kg (bag)	-
-	comp. A - 12 kg	NO	36 jerrycans	A = 12 kg (jerrycan)	-
-	comp. B - 24 kg	NO		B = 24 kg (bag)	-

ADR legend:

NO = NON-DANGEROUS goods

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

Si = DANGEROUS Goods

LEGAL NOTES

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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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