



BETON COLOR

Coloured coating for BETONGUAINA and BETONGUAINA.S

CE marking:

- EN 1504-2 (C) - Principles: PI-MC-IR

Certifications:

- EN 13501-1 - Class: Bfl-s1
- EN 13501-1 - Class: B-s1,d0



TECHNICAL SPECIFICATIONS



FIELD OF APPLICATION



APPLICATIONS

Description

BETON COLOR is a bi-component liquid product that, when applied to a polymer-cement liquid waterproofing membrane, attaches perfectly and forms a coloured, walk-over, non-yellowing film with high resistance to weathering. Component A is made up of hygro-hardening aliphatic isocyanate pre-polymers and is universal for all colours. Component B is made up of fillers, additives, solvents and pigments, and is specific for each colour. BETON COLOR is also available in the EXTRAGRIP version, with class R9 slip resistance in accordance with DIN 51130 specifications.

CE marking

BETON COLOR fulfils the principles defined in the EN 1504-9 standard ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and evaluation of conformity. General principles for use of products and systems") and to the requirements of the EN 1504-2 standard ("Protection systems for concrete surfaces") for the following class:

→ PI-MC-IR

- For Principle 1 (PI) - Protection against penetration risks: 1.3 Coating (C), ZA.1d.
- For Principle 2 (MC) - Humidity control: 2.2 Coating (C), ZA.1e.
- For Principle 8 (IR) - Resistance increase through the limitation of the humidity content: 8.2 Coating (C), ZA.1e.

Colour

BETON COLOR is available in a wide range of colours. Colours can also be made on request.

Field of application

- BETON COLOR is the product of choice for the aesthetic finishing of BETONGUAINA and BETONGUAINA S.
- As a coloured protective agent (also in the non-drip version) for liquid waterproofing systems even different to BETONGUAINA.

Advantages

- BETON COLOR adheres perfectly to the membrane without any special preparation of the surface.
- BETON COLOR can be applied in a single coat.
- BETON COLOR is resistant to light and UV rays.
- BETON COLOR is resistant to weathering.

BETON COLOR

- The BETONGUAINA (or BETONGUAINA S) + BETON COLOR system possesses good permeability to water vapour.

General preparation of the laying support

- The surface of BETONGUAINA or BETONGUAINA S to be treated must be dry, perfectly cured and free of loose parts.
- Any imperfections must be removed and corrected before use.
- If the membrane was applied a very long time ago and the surface appears dirty, the surface must be sanded lightly using a 180-grit abrasive mesh.

Preparing the product

► NORMAL version

- Open the can of Component B.

It appears like a highly viscous gel.

- Thoroughly mix Component B and disperse any residues deposited on the bottom of the can.
- Component B fluidises after mixing (pseudoplastic consistency).
- Pour Component B into Component A.
- Mix the two components together until obtaining a homogeneous mix free of colour streaks.

► EXTRAGRIP version

- This version is prepared like the NORMAL version by adding, besides Component B, also the EXTRAGRIP (C) component to Component A.

Application of the product

Apply a single coat of BETON COLOR with a short-bristle roller resistant to solvents, spreading the product evenly with criss-cross strokes.

Consumption

type of application	minimum consumption	maximum consumption	UoM	dilution
horizontal and slightly sloping surfaces	250	300	g/m ²	-
For vertical surfaces	180	200	g/m ²	-

> Coverage (dry film)

(0.600 ± 0.040) mm/kg of fresh product applied for each m² of surface.

Cleaning of tools

- Wet product: clean with ACETONE or nitro thinner.
- Hardened product: remove mechanically, soak for at least 24 hours in ACETONE or nitro thinner, or use paint strippers (FLUID STRIPPER or GEL STRIPPER).

Useful application tips

- BETON COLOR is designed for being applied on dry surfaces.
- Before the application, check that there is no significant transfer of water vapour between the substrate (e.g. damp screeds) on which the bitumen membrane (BETONGUAINA) is applied and the outdoor environment. This in order to prevent blisters from forming between the BETON COLOR and the membrane.
- Before applying BETON COLOR on BETONGUAINA, we recommend leaving the product to cure for two weeks.
- Before the application, the product must be at a temperature between +15°C and +27°C.
- With temperatures below +15°C, the product could be too viscous for its correct application. In this case, dilute with 5% of SOLVENT FOR BETON COLOR.
- Per l'applicazione la temperatura deve essere superiore di almeno 3°C al punto di rugiada (dew point) comunque mai minore di +5°C.
- Before use, thoroughly mix the two components (A and B) before uniting them.
- If the package is not used entirely, take Components A and B out of their original containers and close them again

BETON COLOR

immediately.

• Once the two components (A+B) have been mixed, the product has a useful life in the bucket of roughly 3 hours if stored in a perfectly sealed container.

Beyond this time, the product undergoes irreversible deterioration revealed by the formation of a film on its surface (skin) and the increase in its viscosity.

• Do not try to extend the product's life by diluting it.

• Do not apply BETON COLOR if rain is imminent or forecast.

• Do not apply BETON COLOR with relative humidity above 85%.

• The product is flammable.

• Do not drink, eat or smoke during the application.

• Use the specific PPE (personal protective equipment).

• In case of application in closed environments, aerate the room well during and after application.

• Read the safety sheet before using the product.

Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Density at 23°C (Component A), EN ISO 2811-1	kg/L	1,000 ± 0,002
Density at 23°C (Component B), EN ISO 2811-1	kg/L	???????
Density at 23°C (A+B mix), EN ISO 2811-1	kg/L	???????
Colour (Component A)	-	Transparent straw-yellow
Colour (Component B)	-	Coloured
Appearance (Component A)	-	Mellifluous liquid
Appearance (Component B)	-	Jelly-like
Odour (Component A)	-	Of solvent
Odour (Component B)	-	Of solvent
► APPLICATION DATA AND FINAL PERFORMANCES	UoM	Value
Mix ratio by weight (A:B)	-	1,67 : 1,00
Application temperature	°C	from +5 to +35
Maximum atmospheric humidity for application	-	(85 ± 5) %UR
Surface drying time (20°C, 50% R.H.), EN ISO 9117-3	min	40 ± 5
Walk-over time (at +10°C)	h	72
Walk-over time (at +20°C)	h	48
Walk-over time (at +30°C)	h	24
Operating temperature	°C	between -30 and +80
Resistance to freeze-thaw cycles with immersion in deicing salts (measurement of adhesion), EN 13687-1	MPa	3.3 ± 0.2 (Substrate fracture)
Resistance to thunderstorm cycles (measurement of adhesion), EN 13687-2	MPa	3.2 ± 0.2 (Substrate fracture)
Resistance to thermal cycles without immersion in deicing salts (measurement of adhesion), EN 13687-1	MPa	3.4 ± 0.2 (Substrate fracture)
Resistance to exposure to artificial atmospheric agents (duration of exposure 2,000 hours, UV-A radiation, cycle: 4 h of UV-A radiation, 4 hours wetting in darkness) – ΔE on BIANCO, EN 1062-11	-	
► TECHNICAL DATA IN CONFORMITY TO EN 1504-2	UoM	value
Permeability to CO ₂ , equivalent air layer thickness SD(CO ₂), thickness 0.10 mm, EN 1062-6	m	88 ± 1
Permeability to water vapour, equivalent air layer thickness SD, thickness 0.15 mm, EN ISO 7783	m	1.10 ± 0.01 (Class I)
Capillary absorption and permeability to water, EN 1062-3	kg/(m ² •√h)	0,020 ± 0,001
Direct tensile adhesion, EN 1542	MPa	3.2 ± 0.4 (Substrate fracture)
Classification as per EN 1504-2	-	PI (1.3) - MC (2.2) - IR (8.2)

BETON COLOR

Storage of the product

- 6 months in the closed original packaging, in a dry and covered place away from direct sunlight, at a temperature between +5°C and +35°C.
- Protect the product against humidity.

Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
RAL 7040	kit (A+B) da 1,5 kg	P*	-	A = 0,94 kg (lattina) B = 0,56 kg (barattolo met.)
RAL 7040	kit (A+B) da 4,5 kg	P*	-	A = 2,82 kg (3 lattine) B = 1,68 kg (fustino met.)
EXTRAGRIP (C) (1)	0,06 kg	NO	-	
EXTRAGRIP (C) (2)	0,18 kg	NO	-	
TIER 1 COLOUR	kit (A+B) da 1,5 kg	P*	-	A = 0,94 kg (lattina) B = 0,56 kg (barattolo met.)
TIER 1 COLOUR	kit (A+B) da 4,5 kg	P*	-	A = 2,82 kg (3 lattine) B = 1,68 kg (fustino met.)
TIER 2 COLOUR	kit (A+B) da 1,5 kg	P*	-	A = 0,94 kg (lattina) B = 0,56 kg (barattolo met.)
TIER 2 COLOUR	kit (A+B) da 4,5 kg	P*	-	A = 2,82 kg (3 lattine) B = 1,68 kg (fustino met.)
TIER 3 COLOUR	kit (A+B) da 1,5 kg	P*	-	A = 0,94 kg (lattina) B = 0,56 kg (barattolo met.)
TIER 3 COLOUR	kit (A+B) da 4,5 kg	P*	-	A = 2,82 kg (3 lattine) B = 1,68 kg (fustino met.)
TIER 4 COLOUR	kit (A+B) da 1,5 kg	P*	-	A = 0,94 kg (lattina) B = 0,56 kg (barattolo met.)
TIER 4 COLOUR	kit (A+B) da 4,5 kg	P*	-	A = 2,82 kg (3 lattine) B = 1,68 kg (fustino met.)

Legenda ADR:

P* = merce PERICOLOSA imballata in quantità limitata (confezionata come da Cap. 3.4 ADR)

NO = merce NON PERICOLOSA

(1): Package for BETON COLOR (AB) 1.5 kg kit.

(2): Package for BETON COLOR (AB) 4.5 kg kit.

LEGAL NOTES

Advice on how to use our products corresponds to the current state of our knowledge and does not involve the assumption of any guarantee and / or responsibility for the final result of the work. They do not refore exempt the customer from the responsibility of verifying the suitability of the products for the use and the prefixed purposes through preventive tests. The website www.nordresine.com contains the latest revision of this datasheet.

EDITION

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