





-  CONCRETE REPAIR
-  RIPRISTINO DEL CALCESTRUZZO
-  RESTAURATION DU BÉTON
-  NAPRAWA BETONU



GROVE[®] RASANTE

Anti-carbonation concrete levelling compound CE Marked - in compliance with EN 1504-3

Description

GROVE RASANTE is an anti-carbonation levelling compound for concrete based on cement, selected aggregates and special additives for the ideal finishing treatment of surfaces previously restored with GROVE RIPRISTINO or GROVE RAPIDO and for the protection of concrete surfaces.

It can form layers with thicknesses ranging from 1 to 10 mm.

GROVE RASANTE meets the requirements defined in ENV 1504-9 ("Products and systems for the protection and repair of concrete structures: Definitions, requirements, quality control and evaluation of conformity. General principles for the use of products and systems") and the requirements of the European standard EN 1504-3 ("Structural and non-structural Repair") for class R2 mortars.

Where to Use

GROVE RASANTE can be used:

- for finishing concrete surfaces during degraded concrete restoration works;
- to smoothen up cast-on-site concrete and prepare it for a final paint or resin finish.

Advantages

GROVE RASANTE:

- is characterized by excellent adhesion to concrete;
- can be applied in thicknesses up to 10 mm.

Application

Preparing the Substrate

- thoroughly clean and remove all loose particles;
- thoroughly wet the laying surfaces and avoid applying the product on varnished or painted parts, plaster, wallboard and plastic coverings.

Preparing the Mixture

Mix the contents of a GROVE RASANTE bag with about 5.5 litres of clean water with a slow-rotating drilling machine for solid materials (anchor impeller), until a mixture free of lumps is obtained.

Generously wet all laying surfaces and apply the product to the surface after restoring it with CEM-OX and GROVE RIPRISTINO or GROVE RAPIDO.

To make the coves and to realize iron covers over the spacers, thoroughly wet the substrate and proceed with the direct application of the product.

Applying the Product

Apply to the surface to be treated in successive coats, each coat being not thicker than 5 mm, with a steel trowel or plaster, until obtaining the desired thickness which, however, should not be thicker than approx. 10 mm in two coats.

Product Finishing

As soon as the levelling compound begins to set, do the smoothing with a sponge float.

Curing the Product

Particular care must be given to the product curing phase, because during the warm months, **it must be repeatedly wetted in the first 48 hours.**

Cleaning the tools

Clean tools and equipment with water while the product is still fresh, if it has hardened remove it by mechanical means.





Coverage

To obtain approximately 1 mm. thickness of dry product, approx. 1.75 kg product per 1 m² is required.

Warnings

- Apply at temperatures ranging from +5 to +35°C.
- Avoid applying in direct sunlight



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- In cold weather, do not apply on frozen surfaces or with risk of frost in the next 24 hours.
- Do not apply in thicknesses lower than 1 cm.

Specifications

PRODUCT IDENTIFICATION / DATA			
Class according to EN 1504-3	---		R2
Type	---		CC
Colour			white, gray
Consistency	---		powder
Max granulometry, EN 12192-1			0.315
Chloride ions content: - minimum requirements ≤ 0.05% - according to. EN 1015-17	%		≤0.05
PRODUCT APPLICATION DATA (at +20°C and 50% RH)			
Mixing water	%		21-23
Hardened bulk density	kg/m ³		1.600
Application's temperature	°C		from +5 to +35
Mixture Life	min		120
Application Thickness (per coat)	mm		from 1 to 5
Maximum Application Thickness	mm		10
FINAL PERFORMANCE (in compliance with EN 1504-3)			
Compressive strength, EN 12190		* after 7 days	MPa
		after 28 days	MPa
Compressive strength, EN 12190			≥20
Compressive strength, EN 12190			≥25
Flexural strength, UNI EN 196-1		* after 28 days	MPa
			6
Modulus of elasticity secant on compression EN 13412 (*)			MPa
			9700
Adhesion to concrete (substrate Type MC 0.40 - in compliance with EN 1766); EN 1542		after 28 days	Mpa
			≥ 2
Resistance to carbonation, EN 13295	---		in compliance with the specification
Capillary absorption, EN 13057	kg/m ² ·h ^{0,5}		< 0.5
Thermal compatibility measured as adhesion (EN 1542) after 50 cycles of freeze thaw by immersion in de-icing salts, EN 13687/1			MPa
			≥ 2
Cr (VI) soluble in water, EN 196-10			mg/l
			≤ 0,02
Reaction to fire			Euroclass
			A1

* CE marking requirements according to EN 1504-3 do not include this test

Note: The test method refers to regulations as indicated on the table

Packaging and storage

Packaging	25 kg bag in 48 bags pallets
Storage	12 months when stored in original packaging, in a dry area out of direct sunlight at temperatures ranging from +5° C to +35°C. The product is moisture sensitive.

Legal notice

Tips on how to use our products match the current state of our knowledge and do not imply any assumption of responsibility or/and liability for the final result of works. Therefore, customers are not exempt from the responsibility to verify the suitability of products for use and final aims through preliminary tests. The website www.nordresine.com contains the latest revision of this datasheet.

Edition

14.09.2012

