

EXPANCO NS 502

HIGH STRENGTH, NON-SHRINKING, POLYMER-MODIFIED MORTAR FOR HORIZONTAL SURFACES

GENERAL CHARACTERISTICS

EXPANCO NS 502 is a high strength, non-shrinking, polymer-modified, cement-based mortar for indoor and outdoor applications and reparations.

- Suitable for repairing and leveling of floors and rooftops.
- Provides very good bonding to the substrate.
- It has excellent workability.
- Resistant to high mechanical stresses.

TECHNICAL DATA

Basis:	cementitious powder
Colors:	grey
Bulk density:	1,550 ± 0,010 kg/lt
Granulometry:	0µm – 2500µm
Compressive strength: (ASTM D 695)	32 N/mm ² , 7 days at 23°C 40 N/mm ² , 28 days at 23°C
Flexural strength: (Din 1164)	5 N/mm ² , 7 days at 23°C 8 N/mm ² , 28 days at 23°C
Water demand:	17-20% water by weight of powder depending the desirable workability
Temperature for the application and drying of the material:	5 – 35°C
Application time:	approximately 1 hour at 23°C

PREPARATION - APPLICATION

Applied on stable, clean surfaces, 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.

- Removal of heavy dirt and previous coats of paint mechanically e.g. sand blasting.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner.
- Priming of the surface with acrylic **RITIVEX 1103** or **AKRYLEX 165 1101** diluted with water 1:1 for a better adhesion. Consumption 100-150 gr/m².
- After the primer dries, follows application of **EXPANCO NS 502**.
- A clean container is filled with the appropriate amount of water (17-20% water by weight of **EXPANCO NS 502** depending on the desirable workability).
- Then the material is added under continuous stirring using a low revolution mixer (300 rpm), until a uniform liquid mass is formed without any lumps.
- **EXPANCO NS 502** is poured on the surface in one layer and spread using toothed

Thessaloniki Office

10, 25th Martiou str., N. Efkarpia,
P.C.: 56429, Thessaloniki Greece
T.: (+30) 2310 680105, (+30) 2310 680382
F.: (+30) 2310 692866

e-mail: exports@polat.gr

Athens Office

109, Vouliagmenis Avenue, Glifada,
P.C.: 16674, Athens Greece
T.: (+30) 210 9647320
F.: (+30) 210 9646317

www.polat.gr



spatula or trowel in thickness of up to 20mm.

CONSUMPTION

- Approximately 1,8 Kg/m²/mm.
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APPLICATION

TOOLS

Toothed spatula, trowel. Tools should be cleaned with **WATER** before they dry.

PACKAGING

Supplied in bags of 25 kg.

STORAGE

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

REMARKS

- Mixture that has started to harden should not be used or re-softened with water.
 - The surface of **EXPANCO NS 502** should be protected from dehydration the first 48 hours using wet cloths, polyethylene sheets or by repeating dampening.
 - Application temperature must be between +5°C and +35°C.
 - At low temperatures it is recommended mixing of the material with warm water.
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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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