

FINE GRADED TOPPING FINISHING CEMENT MORTAR WITH POLYMERS & QUARTZ AGGREGATES

DESCRIPTION

PENETRON® TOP FINISH FINE is a topping finishing cement mortar, with fine graded quartz aggregates and polymer additives, which provide to the material increased mechanical stress resistance and excellent bonding to the substrate. PENETRON® TOP FINISH FINE is an excellent choice for use in interior and exterior rooms and places with variable substrate. Available in various colours to meet the needs and requirements of the application.

RECOMMENDED FOR

- ▶ Interior or exterior floors
- ▶ Baths and bathrooms
- ▶ Decorative coatings
- ▶ Architectural details and finishing

Indicatively, application surfaces of:

- ▶ Concrete
- ▶ Tiles
- ▶ Terrazzo
- ▶ Cement board
- ▶ Plasterboard
- ▶ Plaster
- ▶ Wood

ADVANTAGES

- ▶ Resistant to low and average load
- ▶ Resistance to mechanical stress
- ▶ Smooth surface with good finish
- ▶ Non absorbent (using varnish)
- ▶ The surface may be walked within about 3 hours (no load) at 23°C / 50% RH
- ▶ Various decorative applications
- ▶ High aesthetic
- ▶ Low cost

TECHNICAL CHARACTERISTICS

<i>Composition</i>	Cementitious based mortar with polymers and quartz aggregates
<i>Type</i>	Powder
<i>Colour</i>	Range of colors (white, light beige, light grey, deep grey, dark grey, etc.)
<i>Workability</i>	~ 30 minutes (depending on application conditions)

DIRECTIONS FOR USE

Surface Preparation: The surface needs to be clean, dry and sound, free of any contamination, which may harm the adhesion of the coating. Remove all loosing materials. Old coatings, dirt, grease, oils, organic substances and dust need to be removed by a grinding machine. Any loose surface pieces and grinding dust need to be thoroughly removed.

Priming:

Porous Surfaces: Prime porous surfaces (concrete, wood, lightweight concrete, etc) with PENETRON® ACRYLIC BONDCRETE™. Wait until it is dry (not tacky to touch), about a half to one hour, before applying PENETRON® TOP FINISH FINE.

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Non-Porous Surfaces: Prime non-porous surfaces (tiles, terrazzo, metal, etc) with PRIMER STX 100™. Wait until it is dry (not tacky to touch), about one to two hours, before applying PENETRON® TOP FINISH FINE.

Substrate – Filling: It is possible to apply a layer of PENETRON® MULTI PATCH, with spatula, indicative consumption 10.4 lb/ft²/in (2.0 kg/m²/mm), as a filling / smoothing substrate. For larger thicknesses, apply STANDARD UNDERLAYMENT SL, indicative consumption 7.8 lb/ft²/in (1.5 kg/m²/mm), to create a smooth surface, before applying PENETRON® TOP FINISH FINE. PENETRON® MULTI PATCH can be reinforced with fiberglass grid 145 gr 5x5 mm (roll 1x50 m). In these cases, the topping finishing cement mortar must be applied the next day. (The use of a surface primer is highly recommended).

Mixing: Mix PENETRON® TOP FINISH FINE with clean water in a pail, using a mixing drill, until the material has the proper texture. Leave the material for some minutes until the entrapped air is escaped, to avoid the formation of air bubbles.

NOTE: Mix as much material as is required for the specific application. Do not add water after the mix is prepared.

Mixing ratios: Mix 25 kg PENETRON® TOP FINISH FINE with 5 – 5.5 kg clean water (polymers contained in the whole mass of the product). The enhancing admixture PENETRON® LATEX may be added, replacing the amount of water, if desired, in the following mixing ratios 3.3 lb (1.5 kg) PENETRON® LATEX with 7.7 to 8.8 lb (3.5 to 4 kg) clean water.

Application: Apply the prepared mix of PENETRON® TOP FINISH FINE on the primed surface and lay it with a wide metallic hand trowel (notched spatula allows better control of layer). Smooth and press the material, until the surface is fully covered, with the use of an appropriate flat trowel. Allow a waiting time, until the material is slightly “set” (usually 10 to 30 minutes, depending on temperature, humidity and ventilation), then you may float and finish the surface, with the appropriate pan float or smoothen by pressing with a flat, stainless steel spatula with curved edges, to meet the criterial of the desired result. To enhance finishing, you may spray clean water only. On that stage, you might use additional quantity of the material for better surface finishing. The next layer is applied, if required, after the first layer starts to set, but in the same day.

NOTE: In case of intense stress and floors with high strength resistance, the use of fiberglass grid 145 gr 5x5 mm (roll 1x50 m) is recommended. Apply the grid after the first layer of PENETRON® TOP FINISH FINE and lay and press the material, like in the previous application. In that case, the next layer will be applied in the next day, after the first layer has already been set. If required, a third layer is applied, when the second layer starts to set.

Finishing: Lay and spread the material that you applied on the surface, until it has a smooth texture. Push the material firmly, during the application, with the appropriate flat, stainless steel spatula with curved edges, to eliminate any formation of bubbles and blisters. The use of polishing varnishes is highly recommended, after finishing, when the surface is set and the

surface moisture is less than 5% or after 2-3 days, since the application, to achieve a non-absorbent surface. In that way, a non-porous surface is obtained.

Glossy (Satin) Surface: To obtain a glossy non-porous surface, we recommend the application of water base acrylic polishing varnish PENECONAT™ ACRYLIC-W diluted 1:1 with water, in one layer using a roller or brush. Mix PENECONAT™ ACRYLIC-W with water in a proper pail, with a mixing drill and apply the coat. Also, we recommend the application of the polyurethane based polishing varnish PENECONAT™ CLEAR diluted with the polyurethane solvent PENECONAT™ A PLUS, in one layer using a roller or brush. Mix PENECONAT™ CLEAR with PENECONAT™ A PLUS in a proper pail, with a mixing drill and apply the coat. Indicatively, apply a mixture of PENECONAT™ ACRYLIC-W 1:1 with water and coverage 0.02 – 0.03 lb mixture/ft² (0.100 – 0.150 kg mixture/m²) and PENECONAT™ CLEAR/PENECONAT™ A PLUS 1:1 diluted and coverage 0.02 – 0.03 lb mixture/ft² (0.12 – 0.15 kg mixture/m²).

Matt Surface: To achieve a satin (matt) non-absorbent surface, stir, with a mixing drill, and apply by roller or brush, the polyurethane based polishing varnish PENECONAT™ CLEAR MAT FINISH, after the application of the water base acrylic polishing varnish PENECONAT™ ACRYLIC-W and when it is dry. Indicatively, apply a mixture of PENECONAT™ CLEAR MAT FINISH/PENECONAT™ A PLUS 1:1 diluted and coverage 0.02 lb mixture/ft² (0.12 kg mixture/m²)

NOTE: The use of PENECONAT™ CLEAR diluted with the solvent PENECONAT™ A PLUS, is preferred, as it results to a thinner surface finishing layer. The use of a testing sample and a preliminary test is highly recommended, to obtain the proper mixture of PENECONAT™ CLEAR/PENECONAT™ A PLUS. It is recommended to apply only one layer of the polishing coats, as not to alter the colours and to avoid a very glossy surface, but also to avoid a thicker surface finishing layer, so it is not easily scratched.

COVERAGE

The coverage of the topping finishing cement mortar mixture PENETRON® TOP FINISH FINE is 13.46 lb/ft²/in (1.6 kg/m²/mm).

Indicatively, the thickness of application is 0.11 in (3 mm). The material can be applied between 2 mm and 10 mm, in thickness.

The use of fiberglass grid is expected to increase the consumption and the thickness of application of PENETRON® TOP FINISH FINE.

SPECIAL CONSIDERATIONS

During the curing period of the topping finishing cement mortar mixture PENETRON® TOP FINISH FINE protects the surface with the appropriate measures, to avoid sudden drying, thermal shock or strong wind. Also, please keep the surface clean of dust, grease or other contaminants.

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Contact PENETRON HELLAS S.A. for further information, regarding the range and type of surface coatings recommended for your project and their application procedures.

To avoid cracks and detachments, except from using the appropriate primers, the formation of circumferential expansion joints, is highly recommended and generally suggested the creation of such joints in sections of 20 - 25 m². Expansion joints can later be sealed with the appropriate sealants U-SEAL or SIMP®SEAL.

Use water to clean tools immediately after use.

Contact PENETRON HELLAS S.A. for further information, regarding your project.

PACKAGING

PENETRON® TOP FINISH FINE is available in 55 lb (25 kg) bags.

STORAGE / SHELF LIFE

Storage life is 12 months when stored in sealed bags, dried and cooled place. Keep the bags closed and avoid exposure to direct sunlight. Minimum storage temperature is 45°F (7°C).

SAFE HANDLING INFORMATION

PENETRON® TOP FINISH FINE contains cement, which is alkaline. Will irritate eyes and skin and may cause skin sensitization. Wear appropriate eye, skin and breathing protection when using this product. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers. KEEP OUT OF REACH OF CHILDREN.

WARRANTY – DISCLAIMER

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