

### 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
- ▶ Cementboard
- ▶ 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 15.14 lb/ft<sup>2</sup>/in (1.8 kg/m<sup>2</sup>/mm), as a filling / smoothing substrate. For larger thicknesses, apply STANDARD UNDERLAYMENT SL, indicative consumption 11.78 lb/ft<sup>2</sup>/in (1.4 kg/m<sup>2</sup>/mm), to create a smooth surface, before applying PENETRON® TOP FINISH FINE. PENETRON® MULTI PATCH can be reinforced with fiberglass grid 125 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 laying). 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 criteria 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 125 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.

**Γυαλιστερή (Σατινέ) Επιφάνεια:** Για την απόκτηση γυαλιστερής μη απορροφητικής επιφάνειας συνιστάται η εφαρμογή του υδατικής βάσης ακρυλικού βερνικιού PENECOAT™ ACRYLIC-W με αραιώση 1:1 με νερό, σε μία στρώση, με τη χρήση ρολού ή βούρτσας. Αναμίξτε το PENECOAT™ ACRYLIC-W με το νερό PLUS σε κατάλληλο δοχείο με μηχανικό αναδευτήρα (δράπανο) και στη συνέχεια εφαρμόστε. Στη συνέχεια, συνιστάται η εφαρμογή του πολυουρεθανικής βάσης βερνικιού PENECOAT™ CLEAR με κατάλληλη αραιώση με τον πολυουρεθανικό διαλύτη PENELEANER™ PLUS, σε μία στρώση, με τη χρήση ρολού ή βούρτσας. Αναμίξτε το PENECOAT™ CLEAR με το PENELEANER™ PLUS σε κατάλληλο δοχείο με μηχανικό αναδευτήρα (δράπανο) και στη συνέχεια εφαρμόστε. Ενδεικτικά, εφαρμόζεται μίγμα PENECOAT™ ACRYLIC-W 1:1 με νερό και κατανάλωση 50-150 gr μίγματος/m<sup>2</sup> και PENECOAT™ CLEAR/PENELEANER™ PLUS με αραιώση 1:1 και κατανάλωση 0,12 – 0,15 kg μίγματος/m<sup>2</sup>.

**Ματ Επιφάνεια:** Για την απόκτηση σατινέ (ματ) μη απορροφητικής επιφάνειας, αναδεύστε με μηχανικό αναδευτήρα (δράπανο) και απλώστε μία στρώση του πολυουρεθανικής βάσης βερνικιού PENECOAT™ CLEAR MAT FINSH, με τη χρήση ρολού ή βούρτσας μετά την εφαρμογή του υδατικής βάσης βερνικιού PENECOAT™ ACRYLIC-W. Ενδεικτικά, εφαρμόζεται μίγμα PENECOAT™ CLEAR MAT FINSH/PENELEANER™ PLUS με αραιώση 1:1 και ενδεικτική κατανάλωση 0,12 kg μίγματος/m<sup>2</sup>

**Glossy (Satin) Surface:** To obtain a glossy non-porous surface, we recommend the application of water base acrylic polishing varnish PENECOAT™ ACRYLIC-W diluted 1:1 with water, in one layer using a roller or brush. Mix PENECOAT™ 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 PENECOAT™ CLEAR diluted with the polyurethane solvent PENELEANER™ PLUS, in one layer using a roller or brush. Mix PENECOAT™ CLEAR with PENELEANER™ PLUS in a proper pail, with a mixing drill and apply the coat. Indicatively, apply a mixture of PENECOAT™ ACRYLIC-W 1:1 with water and coverage 0.02 – 0.03 lb mixture/ft<sup>2</sup> (0.100 – 0.150 kg mixture/m<sup>2</sup>) and PENECOAT™ CLEAR/PENELEANER™ PLUS 1:1 diluted and coverage 0.02 – 0.03 lb mixture/ft<sup>2</sup> (0.12 – 0.15 kg mixture/m<sup>2</sup>).

**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 PENECOAT™ CLEAR MAT FINSH, after the application of the water base acrylic polishing varnish PENECOAT™ ACRYLIC-W and when it is dry. Indicatively, apply a mixture of PENECOAT™ CLEAR MAT FINSH/PENELEANER™ PLUS 1:1 diluted and coverage 0.02 lb mixture/ft<sup>2</sup> (0.12 kg mixture/m<sup>2</sup>)

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**NOTE:** The use of PENECONAT™ CLEAR diluted with the solvent PENECCLEANER 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/PENECCLEANER 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/ft<sup>2</sup>/in (1.6 kg/m<sup>2</sup>/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 protect 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.

Contact PENETRON HELLAS 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 m<sup>2</sup>. 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 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 Material Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

**WARRANTY – DISCLAIMER**

PENETRON ROMANIA warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON ROMANIA shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application have been proven. PENETRON ROMANIA makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, PENETRON ROMANIA makes no warranty of any kind, concerning this data. In any case, this data are given in good faith based in the PENETRON ROMANIA experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON ROMANIA accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. PENETRON ROMANIA may particularly differentiate its versions of the product's data sheet compared with those of PENETRON ROMANIA or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.

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