PRODUCT DATA SHEET

SiMP® COAT 25

Version, Penetron Hellas 17.08.2026

ONE-PART SILENE MODIFIED POLYMER ELASTIC WATERPROOFING COATING

DESCRIPTION

SiMP® COAT 25 is a premium, liquid and cold applied, one-part, Silyl-Terminated Polymer, elastic, waterproofing membrane, free of bitumen, solvent and isocyanates (IT IS NOT POLYURETHANE). It cures by reaction with the moisture of the environment to form a good protective and self-leveling coating, ideal for surfaces to be covered.

RECOMMENDED FOR

SiMP® COAT 25 is ideal for protection, maintenance, repair, restoration and waterproofing in both new or existing construction of:

- Balconies and terraces
- Large horizontal surfaces form concrete or mortars
- Shingles, metal and flexible roofs and coverings
- By injection as filling material
- Protection of Polyurethane Foam Insulation
- Waterproofing of Wet Areas (under-tile) in bathrooms, kitchens, balconies, auxiliary rooms, etc
- Sealing on joints of chimneys, gutters, skylights, form various materials such as concrete, metal mansory, wood etc
- Industrial metal roofs
- Traditional inclined roofs: shingles, tiles, stones
- Protection of masonry and vertical surfaces

ADVANTAGES

- One component. Ready-to-use
- Good resistance to water and moisture
- Applicable also on damp surfaces
- Self-leveling (spreads to the surface)
- Applicable by brush, roller, spatula or airless pumps
- Provides water vapor permeability, allowing the surface to breathe
- Cost efficient life cycle extension of failing roofs in general
- Environmental friendly – Free of bitumen, isocyanates and solvents
- No Hazard symbol required

TECHNICAL CHARACTERISTICS

Type	Self-leveling paste
Color	Light Grey (RAL 7035)
Density	90.52 ± 1.25 lb/ft^3 (1.45 ± 0.02 kg/Lt)
Chemical nature	SiMP - Silyl Terminated Polymer - Hybrid Technology
Curing mechanism	Moisture-curing
Application temperature	41 to 104 ºF (5 to 40 ºC)
Temperature resistance	-40 to 212 ºF (-40 to 100 ºC), with brief points at 302 ºF (150 ºC)

PENETRON® ADVANCED WATERPROOFING & PROTECTION SYSTEMS

ONE-PART SILENE MODIFIED POLYMER ELASTIC WATERPROOFING COATING

Technical data of SiMP® COAT 25

Characteristcs	Test Result	Test Method
Elongation	220 %	ISO 37 DIN 53504
Tensile strength	1,6 N/mm^2	ISO 37 DIN 53504
Shore A hardness	28 N/mm^2	DIN 53505
Water vapor permeability	33 g/m^2	ISO 9935:91
Elastic modulus at 100%	1 N/mm^2	ISO 37 DIN 53504
Tack-free time	45 min	At 73 °F (23 °C) and RH 50%

Chemical Properties of SiMP® COAT 25

- Good to water, aliphatic solvents, oils, greases, diluted inorganic acids and alkalis
- Moderate to esters, ketones and aromatics
- Not resistant to concentrated acids and chlorinated hydrocarbons

All data are average values obtained under laboratory conditions. Impractical use, temperature, humidity and absorption of the substrate may influence the above given values.

DIRECTIONS FOR USE

Surface Preparation: The surface needs to be clean and sound, free of any contamination, which may harmfully affect the adhesion of the coating. The surface must also be thoroughly cleaned from water puddles, prior to application. Remove all loosing materials. New concrete structures need to dry for at least 28 days. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine and any cavities or damage to the substrate, should also be repaired with the appropriate repairing mortars. Existing cracks and joints must be sealed, before the application, for long lasting waterproofing results. Any loose surface pieces and grinding dust need to be thoroughly removed. The substrates must be prepared, in accordance with the PENETRON HELLAS S.A. instructions. Contact PENETRON HELLAS S.A. for further recommendations and guidance, regarding adhesion on specific surfaces.

Expansion joint sealing: Prime the expansion joints with the appropriate primer (U-SEAL 110 for porous substrates). Apply a polyethylene backing rod, of the appropriate section (PENETRON® BACKING ROD) inside the joint and fill the joint with the appropriate sealer, U-SEAL or SiMP® SEAL, indicatively.

Existing cracks and joints must be sealed, before the application, for long lasting waterproofing results.

NOTE: Contact PENETRON HELLAS S.A. for further recommendations and guidance, regarding your project.

Application: Apply SiMP® COAT 25, ready-to-use, evenly and completely enclosed in one or two layers, manually with a roller or brush. Spread or pour SiMP® COAT 25 in lanes directly on the surface and subsequently spread through a short pile roller (roller for epoxy/polyurethane paints). The second layer is applied after complete drying of the first layer. It is highly recommended to apply the second layer on the next day. For large areas and professional applications, it can be sprayed by airless pump, allowing a considerable saving of manpower. Furthermore, it can be applied with a flat trowel for horizontal surfaces.

In particularly crack-prone or other problem areas, like wall-floor connections, 90° angles, chimneys, pipes and waterspouts (siphon), the application of the geotextile FABRIC, soaked and saturated in SiMP® COAT 25, in the first wet layer, is recommended. Press FABRIC firmly with a roller. The second layer is applied over FABRIC, after complete drying of the first layer. It is highly recommended to apply the second layer on the next day.

In case patency is needed, medium or high, full coverage with quartz aggregates (indicative granulometry QUARTZ SAND MIX 0,1 – 0,45 MM or QUARTZ SAND MIX 0,4 – 0,8 MM) with consumption 2 – 4 kg/m^2 could be made. The coverage with quartz sand should be made in third layer (sacrificial layer) of SiMP® COAT 25 while the surface is still fresh, where the

indicative consumption of SiMP® COAT 25 is 0,5 kg/m^2. The next day, and after the absorption of quartz excess, using an industrial vacuum cleaner, it is possible to cover with one or two layers of a suitable protective coating. The application of PENECOAT™ PU-H (aliphatic paint), is suggested, with indicative consumption on quartz 0,250 – 0,300 kg/m^2 per layer. The second layer is applied after 2-4 hours.

Finishing: For a color-stable and chalking-free surface, with medium traffic, apply one or two layers of the PENECOAT™ PU – L over SiMP® COAT 25.

Coverage: *Indicatively:* 0.27 – 0.31 lb/ft^2 (1.3 – 1.5 kg/m^2) in two layers. The use of FABRIC is expected to double the coverage of SiMP® COAT 25 per m^2.

SPECIAL CONSIDERATIONS

On many clean substrates, a good adherence can be achieved without adhesion promoter. However, it should always be tested, if the surface is stable or needs a suitable primer to stabilize it.

In the case of application to a damp surface which expose to the UV radiations, there is a risk of "bubbling" of the material due to high water vapor pressure. This phenomenon is avoided by the proper placement of evaporators. Indicatively one per 215 – 269 ft^2 (20-25 m^2) of surface.

In case of waterproofing of large areas, with high moisture content, the use of evaporators, one per 215 – 269 ft^2 (20-25 m^2) of surface, is highly recommended.

For long-term exposure of SiMP® COAT 25 in UV radiation and outdoor environment, SiMP® COAT 25 should be protected (refer to the direction for use).

SiMP® COAT 25 may be over-painted, however, due to the large number of paints and varnishes available, we strongly suggest a compatibility test, before application. The drying time of alkyd resin based paint may increase.

Once opened, packs should be used up within a relatively short time.

Clean tools with acetone or alcohol immediately after use. Cured material can only be removed mechanically.

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

PACKAGING

SiMP® COAT 25 is available in 31 lb (14 kg) pail packaging, in Alu-bags of 15,5 lb (7 kg) (2 Alu-bags per pail) and in pails of 1 kg.

STORAGE / SHELF LIFE

SiMP® COAT 25 can be stored for 12 months in its original packing (unopened container) at 41 – 77 ºF (5 – 25 ºC) in a cool, dry place. The storage temperature should not exceed 77 ºF (25 ºC) for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

SAFE HANDLING INFORMATION

Keep out of reach of children. If skin contact occurs, remove immediately and wash with soap and water. If eye contact occurs, wash immediately with plenty of water and seek medical attention. The use of protective gloves and goggles is recommended during application. 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.

WARRANTY – DISCLAIMER

PENETRON HELLAS S.A. 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 HELLAS S.A. 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 HELLAS S.A. 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 HELLAS S.A. makes no warranty of any kind, concerning this data. In any case, this data are given in good faith based in the PENETRON HELLAS S.A. experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON HELLAS S.A. 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 HELLAS S.A. may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD 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.

PENETRON HELLAS S.A.
G.E.M.H. No: 07278001000
Athens Headquarters - Greece
50, Thrakomakedonon Ave.
136 79 Acharnes, Greece
Call Center: +30 210 2448250
info@penetron.gr, www.penetron.gr