

Technical Datasheet

Pozzolana® 120 APM – Version 3.0 – English – Revision: 15.8.2020



Pozzolana® 120 APM

PREMIUM ACRYLIC PENETRATING PRIMER TO REDUCE ABSORBENCY OF MINERAL SUBSTRATE

Pozzolana® 120APM is a one-component water-based modified acrylic product which is specifically designed for use as a primer for Pozzolana® 120PM covering products. With good permeability and adhesion characteristics, the primer prevents water from the freshly applied coverings penetrating the substrate, while also enhances the hardness of porous substrates. The primer is particularly critical for mineral self-leveling screed to form a impervious substrate to avoid formation of air bubbles coming from pores in the substrate and at the same time it helps to create a smoother finishing.

Pozzolana® 120PM Series is manufactured from inorganic, non-toxic, VOC-free raw materials with outstanding properties to create seamless flooring in various environments with minimal application time, without safety hazards, high product performance and exceptionally durable.

Properties

- Advanced silicate-binder technology, environmentally friendly, non-toxic, no allergic potential.
- 100% inorganic material, no VOC or APEO. Low emission (EC1 PLUS).
- High flowability, fast setting and minimizes waiting time.
- Wide range service temperatures; resistant to subzero temperatures, extreme heat and thermal shocks.
- High abrasion resistance.
- Not affected by UV.
- No shrinkage (DIN EN 13454), swelling, natural crazing or cracks.
- Does not create ASR and no efflorescence
- Adhere well to many types of surface especially smooth surfaces such as ceramic tiles, stone slabs, glass surfaces, etc.
- Water vapor permeable, no water stagnation in humid weather.
- Any practical thickness is possible in one layer.
- Can be applied onto surface which contains calcium sulphate or magnesium carbonate.
- Comply with anti-static requirements (DIN EN 6134- <1000 MΩ).
- Can withstand water pressure up to 1.5 bar.
- Easy and fast in application, can be applied by machine.

Technical information

Strength class (DIN EN 13813)	CT-C40-F8
Abrasion resistance (BCA)	AR 0.5
Application temperature	+12°C to +45°C
Drying time @ 25°C/50% RH	approx. 10 minutes
Application	1 layer
Load capacity (curing @ 20°C)	
Walkable/ ready for covering	after 4 hours
Light load	after 1 day
Fully loadable (indoor)	after 4 days
Fully loadable (outdoor)	after 7 days
Water mixing ratio	1:1 5L Water / 5L Primer
Strength (DIN EN 13892)	
Compressive strength	approx. 40.0 N/mm ²
Flexural strength	approx. 10.0 N/mm ²
Elastic modulus	approx. 10.0 N/mm ²
Slip resistance (DIN 51130)	
Original	R10
Adding other materials	R11-R13
Consumption	0.05-0.1 kg/m ² /mm.
Density	
Bulk density	approx. 1.03 kg/dm ³
Original color	milky white
Chemical resistance	pH 7.5 – 8.5 (with protection)
Heat resistance	-40°C to 700°C
Fire rating (DIN EN 13813)	A1

Range of usage

- Indoors, outdoors, areas with extreme weather conditions.
- For the subsequent processing of coverings using POZZOLANA® products, mineral adhesives and fillers.
- Used as an impervious layer for subsequent thin film coverings on absorbent and mineral substrates.
- Helps to slow down the drying process on fresh concrete or similar.
- Provides a temporary moisture barrier.

Packaging, shelf life and storage

- 5kg or 30 kg pail. Drums are available on request.
- Product has a shelf life of 12 months from the date of manufacture when sealed in original condition
- Store in a cool, dry place. Ideally where there is stable or controlled temperature (not < 0°C, recommended 10°C - 25°C). Reseal the container immediately after dispensing.

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Preparation of substrate

Substrate surface prior to application of Pozzolana® 120 APM Series should satisfy the following conditions:

- Can be applied on concrete or screed of any age. The substrate shall be stable, shall not vibrate or crack and ensure sufficient adhesion strength of ≥ 25 MPa.
- The surface is dry, clean, rough enough and free of all kinds of impurities. Surface preparation using shot-blasting, grinding, or scarifying is recommended.

Mixing and apply Pozzolana® 120APM

Mixing

It is recommended to use adjustable high-speed batch mixer, especially those designed specifically for mixing self-leveling screeds which blends powder with water. Please refer to the mixers provided by manufacturers such as PORTAMIX, COLLOMIX, etc.

- It is recommended to use a variable speed stirrer. Pour the required amount of Pozzolana® 120APM and clean water into the stirring bucket (standard mixing ratio 1:1 by weight). The amount of water may change depending on the porosity of the substrate. For less porous surface increase water proportion.
- It is recommended to conduct a trial before starting actual application as surfaces are often different.
- Stir at high speed for at least 2 minutes before applying.

Application

- Strictly avoid forming puddles, material shall not be left standing on the substrate for a long time.
- When the primer is touch-dry, sprinkle some water over it to check for absorbency which exhibits a wet look if water penetrated.
- It is recommended that the primer be applied 2 hours before the subsequent covering.
- The covering work must be completed within 6 hours after Pozzolana®120APM being applied.

Apply protection layers

- To improve the chemical and wear resistance for the finished surface, it is recommended to apply additional layers of Pozzolana 140 SSS material or equivalent.
- To cover the surface, to minimize the possibility of contamination or staining, it is recommended to apply additional coats of protective surface material such as Pozzolana 180 PTS or Pozzolana 190 PUS or equivalent product.
- Please refer to the technical datasheet of the above products carefully before use.

Application tools and cleaning

- Mixer, stirring bucket, brush, roller or spraying tools. Use only clean equipment for mixing and application.
- All machines and tools should be washed immediately with clean water after using. Waste water from washing tools should be collected and disposed of appropriately to avoid possible environmental and human impacts.

Attention

- In case of outdoor application, in direct sunlight or in areas with strong winds, it is necessary to cover the application areas to avoid drying too quickly.
- Products shall be applied by professional applicators that have been trained and certified by production company or authorized dealers. Finished product quality may vary depending on the management skills, experience, technical understanding, workmanship, application equipment and tools of each applicator.
- Avoid mixing with alkaline substances, dust or other dispersions. Prior to further processing please check sufficient film formation.

Safety Information

- There is no mandatory hazard labeling for Pozzolana® 120APM.
- Protect skin and eyes during the mixing and application process. Clean with clean water immediately if splashed in eyes.
- Please refer to the Safety Data Sheet for further information on safety during waste transportation, storage, handling and disposal. Follow the instructions on the package and related documentation.

Note

Always carefully read the application instructions for the above variant products before applying. Before adding any additional material should always test and do trials before applying on site. As materials in different locations often have different properties that can make a difference on the quality of the final product. There are additional products available to be used with Pozzolana 600 Series to improve the waterproofing, antimicrobial, antistatic, color, elasticity or workability time properties.

Other applications not covered by this document may be supplemented or made available upon request.

Disclaimer

The content of this technical data sheet corresponds to the latest developments and our experiences. All information is based on ideal conditions and therefore may not be completely accurate in actual construction. Due to different types of materials, surfaces and actual construction conditions, no guarantees are given for application. In particular, we are not liable for this information or any verbal statements. The only exception is when we can be blamed for willful or negligence in liability. In that case, the customer must prove that he has fully and promptly transmitted all necessary information to GCM Global for examination and resolution. Any other details relating to the construction of our products must be confirmed in writing by GCM Global. The customer must check the suitability of the product for the intended application and purpose. We reserve the right to change the specifications of products due to ongoing development. In addition, our general terms and conditions are valid. This product documentation supersedes all previous technical data on this product. Technical Data Sheet can be found on our page at www.Pozzolana.com.au.



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Licence Number
11183/01.02.17