

# Technical Datasheet

Pozzolana® 730 Series – Version 3.0 – English – Revision: 15.8.2020



## Pozzolana® 730 Series

PREMIUM SILICATE-BASED BINDER FOR FLOOR AND WALL RENDERING

Pozzolana® 730 Series is a mineral silicate-based, eco-friendly, non-shrink, multi-purpose, premium grade binder for the purpose of creating high quality wall and floor surfaces. The product is designed for matching wall and floor finishings, with higher strength suitable for light traffic. The versatility of the binder allows to create multitude render finishings with the combination with other materials such as color pigments, small stones, sand, flakes, fibers, metal powders, etc. by using respective application methods produce a diversity of colorful, textured decorative surfaces.

Pozzolana® 730 Series is manufactured by the high-grade materials selected from the inorganic, non-toxic, VOC-free raw materials with outstanding properties to create seamless coating layers in various environments without any health and environmental safety hazards.

Pozzolana® 730 Series by itself can be applied in thickness of 0.5mm- 3mm in one single coat. Variant products made out from Pozzolana® 730 Series can be applied to even higher thickness in one layer.

### Properties

- Advanced silicate-binder technology, environmentally friendly, non-toxic, no allergic potential.
- No VOC or APEO.
- Comparatively much lower carbon emission (EC1 PLUS).
- Exceptional durability.
- 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.
- 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 sulfate or magnesium carbonate.
- Easy and fast in application.

### Technical information

<b>Strength class</b> (DIN EN 13813)	CT-C40-F8
<b>Abrasion resistance</b> (BCA)	AR 0.5
<b>Application temperature</b>	+5°C to +45°C
<b>Workability time @ 20°C</b>	approx. 30 minutes
<b>Application thickness</b>	0.5mm - 3mm / 1 layer
<b>Load capacity (curing @ 25°C)</b>	
Ready for ceramic covering	after 3 hours
Ready for next coating	after 4 hours
Ready for paint and wallpaper	after 24 hours
Ready for synthetic resin plaster	after 24 hours
Fully loadable	after 4 Days
<b>Water mixing ratio</b>	
<b>Strength</b> (DIN EN 13892)	5 liters of water (25%)
Compressive strength	min. 17N/mm <sup>2</sup> (grey) min. 20 N/mm <sup>2</sup> (white)
Flexural strength	min. 5N/mm <sup>2</sup> (grey) min. 5N/mm <sup>2</sup> (white) . min. 1.2 N/mm <sup>2</sup>
<b>Slip resistance</b> (DIN 51130)	
Original	R10
Adding other materials	R11-R13
<b>Consumption</b>	1.0 kg/m <sup>2</sup> /mm.
<b>Density</b>	
Bulk density	approx. 1.0-1.2 kg/dm <sup>3</sup>
Fresh mortar density	approx. 1.4-1.6 kg/dm <sup>3</sup>
<b>Original colors</b>	light grey & off-white (~ RAL 9010)
<b>Chemical resistance</b>	pH 4 - 14 (with protection)
<b>Heat resistance</b>	-40°C to 300°C
<b>Fire rating</b> (DIN EN 13813)	A2

### Range of usage

- Indoors, outdoors, areas with extreme weather conditions, or difficult application environment, areas require fast application, or require application of different thickness layers on a surface.
- Mainly to be used in high-end projects such as commercial complexes, office buildings, resorts, hotels, restaurants, luxury housing, etc.

### Packaging, shelf life and storage

- Packed in 20kg paper bag and stowed 80 bags per pallet.
- Shelf life of 12 months from the date of manufacture is printed on the bag label.
- Store in a cool, dry area with stable or controlled temperature (not < 0°C, preferably 10°C – 25°C). Place products at least 300mm above the floor. Seal the opening immediately after taking a portion for use.

### Application design system

- Primer Pozzolana® 120 APM or equivalent
- Body coat Pozzolana® 730 Series with sand
- Finishing Coat Pozzolana® 730 Series without sand
- Protection Sealer Pozzolana® 140SSS and/or Pozzolana® 196 CCS or Pozzolana® 190 PCS equivalent to improve stain protection.

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## Preparation of substrate

Substrate surface prior to application of Pozzolana® 730 Series should satisfy the following conditions:

- Prior to coating, ensure that the surface is stable and has sufficient surface tensile strength. The surface should also be ready for coating, dry or matt damp, clean and free from all kinds of debris. Deeper ruptures must be filled with Pozzolana® 730 Series mixed with dry sand. The surface should be permanently vibration-free and crack-free. Already existing cracks must be repaired professionally.
- For porous and water-permeable substrate surfaces, shall apply Pozzolana® 120 APM primer. Wait for the primer to dry enough within 2 hours then apply the coating. In case the primer has been dried for more than 6 hours, it is necessary to reapply new primer before starting the coating. Drying time of the primer may vary depending on temperature, humidity and environment conditions. This avoids rising of air bubbles during the subsequent coating. In order to guarantee this on critical undergounds, apply a further layer of primer if necessary. Please refer to the technical data sheet of Pozzolana® 120 APM for more information

## Safety Information

- There is no mandatory hazard labeling required for the Pozzolana® 730 Series. Avoid inhalation of dust when opening the bag. Protect skin and eyes during mixing and application.
- Please refer to the Safety Data for more information on safety during the transportation, storage, lifting and handling of waste. Follow the instructions on packing and related documents.

## 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 {BRAND NAME}® 730 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.

## Mixing and apply Pozzolana® 730 Series

### Mixing

- Mix the material by using a high speed (600RPM) mixer. First, add 5.0 liters of water per 20 kg powder material into the mixing container. Then, pour Pozzolana® 730 Series inside while stirring. The material has to be mixed intensely for 4-6 minutes. Mix only as much material as can be applied within 30 minutes.
- The water/binder ratio can be increased during hot and dry weather, and also when adding sand to the binder. The ratio of sand to binder is recommended to be not more than 1:1.
- For crack-sensitive substrates or for the use in wood and drywall construction, insert suitable fabric tapes or reinforcement mesh during application of Pozzolana® 730 Series. In case of installations of reinforcements mesh, Pozzolana® 730 Series is mixed to a suitable consistency. The material is applied on the primed surface with a notched trowel. Insert the reinforcement mesh into the fresh mortar by pressing with a trowel. Smoothen all mortar being pressed through the mesh. For complete covering of the reinforcement mesh a second layer of Pozzolana® 730 Series is applied wet-to-wet.
- Apply a further layer of mortar if necessary.
- Do not cover the finished surface with membrane or other materials.

### Disclaimer

The content of this technical datasheet 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, guarantees are not given for applications. We are not liable for this information or any verbal statements. The only exception is when we can be blamed for willful negligence in liability. In that case, the customer must prove that he has fully and promptly transmitted all necessary information to us for examination and resolution. Any other details relating to the construction of our products must be confirmed in writing by us. 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.



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### Pigmented binder

- Integral color is achieved by incorporating pigments into the binder. The recommended type of pigments to be used is inorganic synthetic oxides which are more UV stable and color fast. Integral colors are available in powder, granular and liquid forms. Powder and granular are to be premixed in the binder, whereas liquid pigments are to be blended into the water just before mixing with the binder.
- It is very important to note that selected pigments shall be suitable for use in an alkaline environment of pH10-12.
- Pigment loading may vary from color to color, the amount used is relative to the amount of binder. Higher dosage of pigments may affect product workability and shall be tested for higher water/binder ratio.