

# Technical Datasheet

Pozzolana® 190 PCS – Version 3.0 – English – Revision: 15.8.2020



## Pozzolana® 190 PCS

### ABRASION AND STAIN RESISTANCE WATER-BASED POLYURETHANE CLEAR SEALER

Pozzolana® 190 PCS is a two-component water-based modified polyurethane clear sealer which is specifically designed for use as a sealer for Pozzolana® covering products. With high chemicals, stains and abrasion resistance and adhesion characteristics, the product helps to protect the finished surfaces from contamination and also against tire marks.

Pozzolana® 190 PCS 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 (EC<sup>1</sup> PLUS).
- Environmentally friendly.
- Very low VOC.
- Water vapor permeable.
- Increases the strength of porous substrates.
- Prevent from stains, dust and tire marks.
- Increase the chemical and acid resistance for the substrate.
- Can be applied outdoors.

### Range of usage

- For indoor and outdoor area.
- For the subsequent processing of floor coatings which is using POZZOLANA® products, mineral adhesives and fillers.
- Use as an impervious layer for subsequent thin film coverings on absorbent and mineral substrates.
- Helps to slow down the drying process on fresh concrete.
- Provides a temporary moisture barrier.

### 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>Drying time @ 25°C/50% RH</b>	approx. 60 minutes
<b>Application</b>	1 layer
<b>Load capacity (curing @ 20°C)</b>	
Walkable/ ready for covering	after 12 hours
Light load	after 3 days
Fully loadable (indoor)	after 7 days
Fully loadable (outdoor)	after 7 days
<b>Water mixing ratio</b>	None / 4.5L (Part A) & 0.5L (Part B)
<b>Strength</b> (DIN EN 13892)	
Compressive strength	approx. 40.0 N/mm <sup>2</sup>
Flexural strength	approx. 10.0 N/mm <sup>2</sup>
Elastic modulus	approx. 10.0 N/mm <sup>2</sup>
<b>Slip resistance</b> (DIN 51130)	
Original	R10
Adding other materials	R11-R13
<b>Consumption</b>	0.075 kg/m <sup>2</sup> /mm.
<b>Density</b>	approx. 1.08 kg/L
<b>Original color</b>	milky white
<b>Chemical resistance</b>	pH 7.5 – 8.5 (with protection)
<b>Heat resistance</b>	-40°C to 700°C
<b>Fire rating</b> (DIN EN 13813)	A1

### Range of usage

### Packaging, shelf life and storage

- 5 kg combined container which includes 4.5 kg Component A and 0.5 kg Component B.
- The shelf life of 12 months from the date of manufacture is printed on the package.
- Store in a cool, dry place. Reseal opened immediately after taking a portion for use.

# Technical Datasheet

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

## Preparation of substrate

Substrate surface prior to application of Pozzolana® 190 PCS should satisfy the following conditions:

- The surface is stable, does not vibrate, cracks and ensure sufficient adhesion strength  $\geq 1.5$  MPa.
- The surface is dry, clean, rough enough and free of all kinds of impurities.

## Mixing and Application Pozzolana® 120 PCS

### Mixing

It is recommended to use a speed adjustable stirrer. Start the stirrer with lowspeed then slowly pour Part B into Part A. It is recommended to do a trial before starting actual application cause the surfaces are often different.

Stir for at least 2 minutes then wait for 2 minutes to release air bubbles prior to applying on the surface.

### Application

To apply Pozzolana ® 190 PCS, use roller, brush and sprayer. The time interval between layers is from 30 to 60 minutes depending on the weather conditions. Apply 2-3 coats depending on the surface protection requirements. The more layers, the better resistance to staining.

### 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 uses. Wastewater from washing tools should be collected and disposed of appropriately to avoid possible environmental and human impacts.

## Safety Information

- There is no mandatory hazard labeling for Pozzolana ® 190 PCS.
- 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

Avoid mixing with alkaline substances, dust or other dispersions. Prior to further processing please check sufficient film formation. Products should be constructed by trained and certified professional construction contractors by production company or authorized partners. The quality of the final product may vary depending on the management skills, experience, technical knowledge, workmanship, construction equipment and tools of each construction contractor.

### 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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