

PC Seal WPS Plus



High-performance polymer modified cementitious waterproofing slurry

Product Overview

PC Seal WPS Plus is a two-component, polymer-modified cementitious, ready to apply surface waterproofing slurry.

Areas of applications

1. All Concrete and masonry substrates.
2. Active or passive waterproofing and protection against water and moisture
3. Foundations, slabs, retaining walls, substructures, etc.
4. All water retaining structures such as water tanks in sewage treatment plants, domestic water tanks, drinking water structures, etc.

Properties

1. The unique composition of cement, quartz sand and additives make PC Seal WPS Plus an excellent waterproofing material. It can be employed against active and passive water pressures.
2. The initial and final bonding capability of PC Seal WPS Plus is excellent, making it suitable to be applied to horizontal as well as vertical surfaces. It is durable, resistant to frost and heat after setting, but all the same permeable to vapour.
3. It can be used in structures retaining potable water.

Guidelines for Usage

1. Surface preparation : The substrate to be treated must be sound and even, open pored, roughened and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance must be removed by suitable means. Water leaks must be stopped e.g. with PC Plug. Thoroughly moisten the substrate it must be damp but not wet at the time of application. Any surface water on horizontal surfaces must be removed.

For brick and blockwork substrates, any remaining plaster, render or other substances that could inhibit bonding must be removed back to the substrate. Gypsum, remains of wood or other foreign material must be removed by appropriate means. Loose particles must be routed out and the substrate must be cleaned thoroughly.

2. Mixing: In a clean container, pour the entire 5 kg PC Seal WPS Plus (Part B - Polymer component) and slowly add 20 kg of PC Seal WPS Plus (Part A - powder component) whilst mixing. Add 1.5 – 3 ltr of potable water into the mix depending upon the surrounding temperature and humidity. Mix the entire contents for at least 5 minutes to a uniform, lump-free and homogeneous consistency. Use a mechanical mixer.

3. Application: PC Seal WPS Plus can be applied with trowel or suitable spray equipment. In most cases the application of more than one coat is recommended. It is recommended to

apply the next coat after a time period of 4 -5 hours of application of the previous coat. The previous coat must not be damaged during the application of the following coat. The waiting time before applying the secondary coat depends on local climatic conditions such as humidity, temperature, etc. The previous coat is textured by suitable means whilst still plastic to form a key.

To maintain workability of the material do not add water, simply re-stir the mixture.

Trowel application : Initially a scratch coat is recommended to enhance maximum adhesion to the substrate, working from the bottom to top. Ensure that all cavities in the substrate are filled in order to evict any trapped air. For subsequent coats a time period of 4 - 5 hours must be given.

Spray application : PC Seal WPS Plus can be applied with a suitable mortar spraying device. For maximum spray pattern it should be possible to adjust volume of product as well as air pressure and volume. The nozzle diameter should be approx. 6 mm. The first layer of PC Seal WPS Plus should be applied in a circular motion with the spray nozzle held perpendicular to the substrate. The material is then flattened and keyed. The final layer can be left as a spray finish or treated to a required finish.

4. Curing: Leave the freshly treated surface for moisture curing and appropriate measures must be taken to protect against extreme weather conditions (e.g. sun, wind, frost) while setting. They should be protected from rain for a minimum period of 24 h to prevent washing off.

5. Plastering and coating: Surfaces treated with PC Seal WPS Plus which are to be coated or painted should be left to cure for at least 28 days. When a plaster or final finish is required on top of a PC Seal WPS Plus treatment it is essential to spray a rough cast of sand and cement on the final PC Seal WPS Plus while it is still moist. On hardened PC Seal WPS Plus surfaces, apply an appropriate bonding agent before rendering.

Coatings on top of a PC Seal WPS Plus treatment have to be alkali resistant. It is

recommended that decorative coatings applied to the passive water pressure side should be water vapour permeable.

Coverage area

| Type of water impact | Recommended overall application rate | Recommended overall layer thickness |
|--------------------------------|---|-------------------------------------|
| Normal condition | 4 kg/m ² | 2 mm |
| Hydrostatic pressure condition | 5 - 6 kg/m ² depending on water pressure | 2.5 - 3 mm |

NOTE : Coverage area may vary depending upon the substrate type and workmanship.

Packages available

PC Seal WPS Plus is available in 25 kg packs.
 Part A - Powder component - 20 kg
 Part B - Polymer component - 5 kg

Storage and Shelf life

PC Seal WPS Plus should be stored away from direct sunlight. It has 12 months shelf life when stored in original, dry and unopened packs.

Safety Measures

Proper safety precautions and tools must be taken into consideration, i.e. wearing safety gloves, safety goggles, safety apron and nose masks, etc. For further related to application and safety precautions, please contact Mcrete technical representative.

Technical data

| Aspect | Thixotropic grey paste |
|------------------|--|
| Mixed Density | 2.0 - 2.1 g/cc |
| Pot life | > 30 mins |
| Setting time | 5 - 8 hrs |
| Overcoating time | After 4-5 hours of application of the prior coat |

For further clarifications Please contact on below address

Pinjala Chemicals Pvt. Ltd.

Plot No. 172/A, Road No. 24, Phase 2
Mallapur IDA, Hyderabad-500076,

Email: info@mcrete.com, Website: www.mcrete.com

Ph no: +919985898569, 040-27158569

Pinjala Chemicals Inc.

30273 Eastridge Drive, Spring,
Texas 77386, USA

Email: info.us@mcrete.com, Website: www.mcrete.com

Ph no: 001-3136861237