# PS – PENETRATING SEALER

**for Better Quality & Durability**

## DESCRIPTION

**CETEX PS** is high performing, deep penetrating concrete & masonry waterproofing sealer that forms a chemical barrier and protects concrete against water and moisture intrusion. Based on Nano technology, small molecules penetrate deep into untreated and uncoated cement surface, forming an insoluble crystalline structure within the pores and capillaries increasing the density of the surface and creating a resistant, consolidated, waterproof barrier against water and moisture for life. It increases the compressive strength of the concrete. It can be applied on any cement-based surfaces like slabs, terraces, beams, columns, ramps, garages, walls, roads, bridges, tunnels, underpasses, trenches, wastewater pits, precast, mortar/ plaster, etc.

## MECHANISM

**CETEX PS,** low alkaline silicate based, first reacts with other free oxides and hydroxides like calcium hydroxide (free lime) inside the concrete to form corresponding silicates, which are stronger molecules. **CETEX PS** "gels" in the empty pores which is insoluble silica deposits. Finally, **CETEX PS** forms a microscopic siliceous layer on the surface which results in strong ceramic coating, firmly bonded to the surface by strong silanol bonds. This is stable against UV and high temperature Thus **CETEX PS** is a long-lasting waterproofing and anti-carbonation treatment. If applied on fresh set concrete, it acts as a curing compound, resulting in higher strength of surface.

## ADVANTAGES

- Penetrates in the surface, thereby **decreases the porosity/ voids** of the surface for life of concrete.
- When applied on new set concrete, the siliceous layer formed on surface helps in **curing** of concrete.
- Improves resistance of the surface against various gases and liquid chemicals.
- Drastic reduction in water absorption - **ASTM C642-97**
- Improves resistance to chloride penetration in concrete surface (RCPT) as per **ASTM C1202**.
- Improves abrasion resistance of surface when tested as per **ASTM C779**.
- **As organic content is NIL, it does not decompose in UV or high temperature.**
- **It prevents spread of fire, fungal growth on surface.**
- **It does not discolor** or show pedestrian or vehicular wear marks.
- As **sodium content is NIL**, it is more stable and has lower efflorescence
- Protects the surface against scratching or peeling thus making it **dustproof.**
- It is harmless, environment friendly and easy to use. **VOC content is NIL**.
- Paints / other chemical coatings can be applied on treated surface after few hours.
- Its usage drastically cuts usage of carbon-based waterproofing chemicals.
- Helps in **Green Building Certification / LEED rating**
- Concentrated for easy transportation and can be easily applied. **It is economical to use**.
- It can be applied in both new as well as old constructions, resulting in **better quality & durability**.

## PROPERTIES

| | | |
|---|---|---|
| Total Solids Content | : | 30% +/- 1.00. |
| Specific Gravity at 25°C | : | 1.25 +/- 0.02 |
| pH | : | Alkaline |
| Organic Content (incl VOC) | : | Nil |

## DIRECTION OF USE

- Clean surface before application. Remove surface coatings like curing compound, paint etc. For best result, the surface should be dry to allow **CETEX PS** penetrate the pores and react. CETEX PS should be diluted with water 3 to 4 parts of water for 1 part of chemical. Apply using a low-pressure sprayer or pour on surface and spread evenly by viper or broom.
- For Horizontal surfaces, apply enough diluted **CETEX PS** to keep the surface wet for 30 minutes. If areas dry out before that, apply more diluted **CETEX PS**. In hot, dry or windy conditions dampen concrete before application to prevent flash drying.
- For vertical surfaces, apply from the bottom up. A wet-on-wet application is recommended; retreat within three to five minutes after initial application. Repeated applications should be made until the surface remains moist for a minute or so before solution disappears.
- Remove any dried powder residue using a stiff broom, power sweeper or floor scrubbing machine, preferably wet. Restrict usage of the treated surface for 12 hours. **Coverage : 10 - 20 sq mtr/ kg** depending on surface porosity**.**

## PACKING & STORAGE

**CETEX PS** is available in 60 kg carboy or 250 kg barrel. When stored in an airtight, sealed container in normal conditions has a shelf life of 12 months.

**LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY -**The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, the results obtained may differ depending on usage or workmanship.