

# PC Integral WC



Integral waterproofing admixture for concrete and mortar

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## Product Overview

PC Integral WC is an innovative liquid admixture designed specifically to allow superior workability in concrete / mortar mixes with reduced water and also achieve high resistance to water ingress. It is based on a specially formulated polymers and compatible with all types of cement and binders (like fly ash, ground granulated slag, silica fume, metakaolin, etc). It is specially formulated integral liquid waterproofing compound composed of surface active plasticising agents, polymers & additives. It is used as an additive for cement concrete, mortar & plasters. It makes concrete cohesive and prevents segregation.

## Areas of applications

1. Basements
2. Roof Slabs and Screeds
3. Water tanks and water retaining structures
4. External Plastering
5. Bathrooms and balconies
6. Sumps and Drains
7. Sea walls, tunnels, basements, structural and precast concrete in exposed superstructures.

## Properties

1. Corrosion resistant - Makes concrete more cohesive, hence protects steel better against corrosion
2. Compatibility – Being a liquid, easily dispersible and compatible with concrete/mortar mixes.
3. Permeability – It reduces the permeability of water into concrete.
4. Strength – The setting time and compressive

strength of the concrete remains within the specification limits.

5. Shrinkage – Reduces shrinkage crack development in plaster & concrete.
6. Workability – Improves workability of freshly mixed cement concrete.
7. Durability – Increases durability by improving waterproofing of concrete.
8. Economical – Low dosage.

## Guidelines for Usage

1. Optimum dosage of PC Integral WC should be determined with trial mixes. Dosages may vary according to the jobsite conditions, variations in concrete materials and other factors. Kindly contact an Mcrete representative for additional support.
2. Charge cement & aggregates to concrete mixer as per the mix design, mix in dry state for 1–2 minutes.
3. Start addition of 40-60% mixing water & mix for 2-3 minutes.
4. PC Integral WC is added as per the recommended dosage into the remaining mixing / gauging water, then add to concrete mixer & mix for another 2 minutes.
5. Place the concrete or apply plaster, as needed.
6. Cure the applied mortar or concrete as per good construction practices.

### NOTE:

1. Do not add PC Integral WC directly to dry cement & aggregate mix.
2. Maintain water-cement ratio as low as possible.

3. Do not increase the dosage of PC Integral WC than the recommendation.

## Dosage and Measures

1. 150 ml -200 ml per 50 kg bag of cementitious material

## Packages available

PC Integral WC is available in 1 kg, 5 kg, 25 kg and 210 kg HDPE containers.

## Storage and Shelf life

PC Integral WC must be stored where temperatures are in between 5°C to 40°C. Its shelf life is 12 months if stored under cover , out of direct sunlight and protected from extreme temperatures.

## Safety Measures

1. Appropriate safety and health precautions are advised (e.g. wearing safety rubber hand gloves, safety shoes and goggles, avoiding contact with skin and eyes, etc.).

2. Care should be taken while using and storage to avoid contact with eyes, mouth, skin and food stuffs. Seek immediate medical attention if accidentally ingested or splashed into eyes.

## Technical data

Appearance	Free Flowing Liquid
Color	Dark reddish brown
Specific gravity @ 25°C	1.10 - 1.20
Non Volatile Content	12.5 % - 14 %
pH value	10-13.5
Setting time (in minutes)	25 min - 500 min
Chloride content	Max 2.00 %
Water Permeability Test	65 % lower (Pass)
Compressive strength	As per the standards

For further clarifications Please contact on below address

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