

# SmartCare MaximoPlast PC 100

Asian Paints SmartCare MaximoPlast PC 100 Super Plasticizer High performance Superplasticizer, based on PCE chemistry.

## PRODUCT DESCRIPTION

SmartCare MaximoPlast PC 100 Super Plasticizer is an admixture based on new generation of modified polycarboxylic ether that provide high water reduction, long workability retention and enhance overall durability of concrete.

## AREAS OF APPLICATION

- Recommended for low grade of concrete (up to M-40)
- Mass concrete
- Pumpable concrete
- Structural concrete
- RMC as well as site batching plant

## FEATURES AND BENEFITS

- Water reduction & slump retention
- Reduction in drying shrinkage
- Reduces water permeability
- Dose sensitivity is less – at high dosage, no impact on retardation
- Better resistance to aggressive atmospheric conditions
- Increases compressive strength of concrete
- Increases flexural strength of concrete
- Increases cohesiveness of the mix and adhesion to the reinforcement and stressing steel

## PRODUCT DETAILS

### STANDARD COMPLIANCE:

Complies to BIS IS 9103 and ASTM C 494 - Type F & Type G depending on the dosage

### PERFORMANCE TEST DATA:

Appearance	Yellow to brown liquid
Specific Gravity @27°C	1.03 to 1.08
Ph	Min 6
Chloride Content	< 0.5 % by weight as per BS 5075: Part 1

## APPLICATION METHOD

### Mechanism:

SmartCare MaximoPlast PC 100 Super Plasticizer is a unique combination of the latest generation superplasticizers, based on special carboxylic ether polymers with long lateral chains. At the start of the mixing process this special polymer develops an electrostatic repulsion which greatly improves separation and dispersion of cement particles. This mechanism considerably reduces the water demand to produce a flow able concrete. The side chains linked to the backbone generate steric hindrance to cement particles. Both these mechanisms produce flowable concrete with greatly reduced water content. SmartCare MaximoPlast PC 100 Superplasticizer combines the properties of water reduction and workability retention. It allows the production of better workability retention.

### Dosages:

The normal dosage range is 0.5 to 2.0 Kg per 100 Kg cement. However, the actual dosage should be determined by trials using the materials & conditions available at site.

### Technical Support:

Asian Paints provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

### Over Dosing:

Over dosing of admixture may result in delay in setting time and segregation. Contact Asian Paints technical expert for assistance.

### Pack Size:

Available in 230 Kg Drums / Tanker

### Shelf Life:

12 months from date of manufacturing when stored at recommended conditions in unopened drum.

## SAFETY FEATURES

- Kindly refer to the MSDS for Asian Paints MaximoPlast PC 100, which gives detailed information on safety measures while handling the paint, which is available on request.
- Store the container with the lid tightly closed in an upright position, in a cool, dry place
- Keep out of reach of children and away from eatables.
- May be harmful if swallowed. In case of ingestion seek immediate medical attention.
- Wear eye protection during application. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Do not pour leftover paint down the drain or in water courses.
- In the event of spills, contain spillage using sand or earth.
- No added Lead, Mercury or Chromium compounds.

## STORAGE PRECAUTIONS

- Store between 5°C to 50°C away from direct sunlight.
- Do not add directly to dry cement or aggregate.
- Material is not compatible with sodium naphthalene or melamine formaldehyde based admixtures.
- If material is swallowed accidentally, immediately seek medical help.
- In case of splashing on skin or eyes, rinse with plenty of water.
- Keep away from children and animals.