

# SmartCare MaximoPlast PX 200

Asian Paints SmartCare MaximoPlast PX 200 Super Plasticizer High performance Superplasticizer, based on Special Polymer and PC technology.

## PRODUCT DESCRIPTION

SmartCare MaximoPlast PX 200 Super Plasticizer is an admixture based on new generation of modified polycarboxylate ether. It contains special additives that provide high water reduction, long workability retention and enhance overall durability of concrete by reducing permeability and drying shrinkage. The performance of the product is thus differentiated from conventional admixtures available in the market.

## AREAS OF APPLICATION

- Recommended for medium grade of concrete (M-30 to M-45)
- Can be used for lower grades of concrete
- Mass concrete
- Pumpable concrete
- Structural concrete
- RMC as well as site batching plant

## FEATURES AND BENEFITS

- High water reduction & slump retention
- Reduction in shrinkage & creep
- Reduces water permeability (tested as per DIN 1048) and offers better resistance to carbonation
- Better resistance to aggressive atmospheric conditions
- Increases early and ultimate compressive strength of concrete
- High E-Modulus
- 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       | As per IS 9103         |

## APPLICATION METHOD

### Mechanism:

SmartCare MaximoPlast PX 200 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 PX 200 Super plasticizer combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability retention.

The special additives in the superplasticizer provide reduction in shrinkage by at least 20 % as well as reduction in permeability of the concrete by 15%.

### Dosages:

The normal dosage range is 0.5 to 1.5 Kg per 100 Kg cement. However, the actual dosage should be determined by trials using the materials and conditions available at site.

### Technical Support:

Asian Paints provides 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 SmartCare MaximoPlast PX 200 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.