



ARMSTRONG CHEMICALS
PVT. LTD., Bengaluru
An ISO 9001 Certified Company

ROOFPLAST-PCTM
455

Next Generation Superior High early Strength Hyper plasticizer and high range water reducer, based on polycarboxylic Technology)
Complies IS - 9103-99 , BSEN 934-2, ASTM C-494,
Type : A, F&G and AASHTOM-194 Types A & F

DESCRIPTION OF PRODUCT

ROOFPLAST PC 455: Is a new generation superior High early strength hyper plasticizer based on next generation. polycarboxylate polymer technology, which purpose fully designed to meet the standards of advanced next generation concrete technologies is designed to impart exceptional rheological properties to fresh concrete, based on the concept of low viscosity concrete. The superior quality high range water reducer ideal to use as an admixture for self compacting, high levels of pumping, high resistance to abrasion and cracks to enable the super strength desire concrete for heavy steel moulded structures like Dams, Reservoirs, Bridges, High range buildings, Runways, Highways and Precast / Pre-stress applications.

ADVANTAGES

- Excellent workability even at water cement ratio reduced at maximum extent, better cohesion and low permeability for concrete / mortar mixes.
- Higher early compressive strength for earlier removal of forms and structural use of concrete
- Ease of placing and compaction. Less vibration required.
- Ideal to use for superior structures of designed concrete by implication of high early strength polymers.
- It enables to deliver high early ultimate strength without effect on setting time allows greater design flexibility.
- Higher ultimate strengths allow for greater engineering design flexibility and structural economies.
- It produced super slump concrete without segregation.
- Provides resistance to shrinkage, cracking and protection against moisture, atmospheric conditions.
- It imparts waterproofing properties to all types of cement compositions by polymerization.
- Highly effective dispersion reduces surface defects in concrete elements and improves aesthetic appearance.
- Can be added to the concrete along with any super plasticizers to some more strengthen the structures.
- Compatible with micro silica, GGBS and fly ash.
- Slump, slump retention or pumpability may be affected if used along with mixing based on naphthalene Sulphate surface.

TYPICAL CHARACTERISTICS

1	Nature of Product Consistency	Single component-polycarboxylic based high range water reducer and plasticizer
2	Compressive Strength as per	10.5 N/mm ² / day
3	ASTM - 109 – 73	40 N/mm ² @ 28 days aging
4	Tensile Strength	5.2 N/mm ² @ 28 days aging
5	Flexural Strength	8 N/mm ² @ 28 days aging
6	Setting Time	Initial : 3 Hrs Final : 4 Hrs

TYPICAL APPLICATIONS

- ★ Concrete at Heavy steel molded structures ★ Self compacting concrete ★ Elevated pumping concrete ★ Super performance concrete ★ High durability concrete ★ Very high strength concrete ★ Ready mix concrete
- It is used to achieve high early ultimate strengths of compressive, flexural, tensile, shear and adhesive strengths to the concrete / mortar mixes.
- Ideal to use as an anti corrosion admixture inhibitor liquid to protect the reinforcement of concrete structures.
- Best alternative for conventional concrete/mortar for patch works in thin or thick sections, and protects the skin layer from atmospheric conditions.
- Ideal to use in Runways, Pavements, bridges, highway concrete, and pre-cast / pre-stress structural concrete applications.

DOSAGE

Recommended dosage of ROOFPLAST PC 455 for all concreting works 300gms. to 600gms. per bag of 50 Kgs Cement. Dosage rates will vary depending on the material used, ambient conditions and specific requirements of the project. An over dosage may cause delay in setting time, provides more flowability, very high workability and extra designed strength. For such requirements dosage can be increased to 1Kg. per bag of 50 Kgs Cement

STORAGE / SHELF LIFE : One year if kept in cool & dry place
Store at cool & dry place, away from sun heat & fire.

PACKING : 5 Kgs., 20 Kgs., 30 Kgs. & 225 Kgs. Pack

ROOFPLAST PC 455 is approved and extensively using in Dams, Bridges, Runways, Roads of R & B Irrigation, Panchayat Raj, Thermal & Hydel Project works and Corporate and Private Sectors.

Whilst **ARMSTRONG CHEMICALS PVT. LTD.** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



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ITS EXCELLENT DEPENDABLE
MULTIPLE ACTION PERFORMANCE
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