



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

ROOFPLAST-PCTM
344

(A New Generation High 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

DESCRIPTION OF PRODUCT

ROOFPLAST PC 344 - It is single component polycarboxylic liquid hyper plasticizer for structural graded concrete based on chains of modified polycarboxylate ether, it is specifically designed to impart exceptional rheological properties to fresh concrete, based on the concept of low viscosity concrete. to use as an admixture for high range water reducing, pumping, self compacting, structural concreting, high grade concrete, abrasion resistant, crack resistant, dense concrete for run ways, highways, heavy steel moulded structures like dams, reservoirs, bridges etc., and reinstatement of cement concrete/mortar to achieve increased compressive strength, tensile, flexural, shear and adhesive strength of cement mixtures with an excellent power of resistance to ultra violet degradation, heat and most of the common chemical attacks.

ADVANTAGES

- Excellent workability even at water cement ratio reduced at maximum extent, better cohesion and low permeability for concrete / mortar mixes.
- Ease of placing and compaction. Less vibration required.
- It produces high early strength, tough and hard cement concrete/ mortar with improved durability for effective repairs and restorations of structures.
- High strength abrasion resistant, crack resistant, dense concrete for run ways, high ways.
- Polymerization of cement compositions produces excellent strength of compression.
- Chloride free best performer for reinforced concrete and provides excellent resistance against acids, alkalies, chemicals and ultra violet degradation.
- Provides resistance to shrinkage, cracking and protection against moisture, atmospheric conditions.
- It imparts waterproofing properties to all types of cement compositions by polymerization.
- 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.

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 pre-fabrication ★ Self compacting concrete ★ Pumped concrete ★ High performance concrete ★ High durability concrete ★ Very high strength concrete ★ Ready mix concrete ★ For precast concrete industry
- It is used to achieve high early 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 structural concrete works.

DOSAGE

Recommended dosage of ROOFPLAST PC 344 for all concreting works 150ml to 600ml 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 1 ltr per bag of 50 Kgs Cement

STORAGE / SHELF LIFE : One year if kept in cool & dry place

PACKING : 5 Ltrs, 20 Ltrs, 30 Ltrs & 210 Ltrs Pack

ROOFPLAST PC 344 is approved and extensively using in Dams, Bridges, Runways, 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.



Manufacturers :

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Authorised Distributor / Stockist

**TRUSTED AND ACCLAIMED FOR
ITS EXCELLENT DEPENDABLE
MULTIPLE ACTION PERFORMANCE
OF WATERPROOFING**

