



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



A New Generation High Strength Hyper plasticizer and high range water reducer,  
Slump Retention, High Compressive Strength based on polycarboxylated Ether Technology  
**Complies IS - 9103-99 , BSEN 934-2, ASTM C-494, Type : A, F&G**

### DESCRIPTION OF PRODUCT

**ROOFPLAST PCS 433** - 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

- Good dispersion resulting a high workability and very good slump retention.
- Improves corrosiveness and pumpability.
- It produces ultimate early strength, tough and hard cement concrete/ mortar with improved durability for effective repairs and restorations of structures.
- 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.
- 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 <sup>2</sup> /day
3	ASTM - 109 – 73	40 N/mm <sup>2</sup> @ 28 days aging
4	Tensile Strength	5.2 N/mm <sup>2</sup> @ 28 days aging
5	Flexural Strength	8 N/mm <sup>2</sup> @ 28 days aging
6	Setting Time	Initial : 3 Hrs Final : 4 Hrs

## TYPICAL APPLICATIONS

- ★ Concrete at Heavey 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 PCS 433** for all concreting works 200 gms to 600 gms 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 kgs., 20 kgs. & 225 kgs.

**ROOFPLAST PCS 433** 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 :**

**ARMSTRONG CHEMICALS PVT. LTD.**

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36/1, G-5, New International Airport Road, Ganga Nagar, BENGALURU - 560 032.

e-mail : [armstrongchemicals@gmail.com](mailto:armstrongchemicals@gmail.com)

Web : [www.acpl.live](http://www.acpl.live) | [www.armstrongchemicals.in](http://www.armstrongchemicals.in)

Please Contact for Customer Care Information : **08095621122**

Toll Free No. **1800 103 2034**

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

