



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

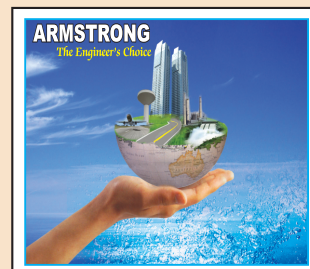
ROOFPLAST SP 45TM

High Range Early Strength, super plasticizer and Water reducing admixture
Complies with IS 9103 - 99 (Amended 2003) BS – 5075 Part 3, ASTM – C-494 Type G

APPLICATIONS AREA

ROOFPLAST SP 45 - High range early strength, super hyper plasticizer and water reducing admixture for cement concrete which permits the reduction of water to cement ratio and increases the compressive strength of concrete, increases the workability, pumpability of the concrete at all ages.

ROOFPLAST SP 45 – Specially formulated to produce high strength and high grade concrete M-30, free flow and uniform mixing of all the ingredients of a placed concrete, based on modified sulphonated naphthalene polymers it complies with IS specifications of IS 9103-1999 (Amended 2003) BS – 5075 Part-3, ASTM – C-494, TYPE G



ROOFPLAST SP 45 - has significant breakthrough in concrete technology which give higher rates of water reductions from 20% to 30% without loss of slump. High workability, high quality of concrete with reduced permeability.

ADVANTAGES :

- Remarkable improvement in the flow & workability of concrete.
- It provides high early strength for precast concrete by controlling water cement ratio.
- High dense, cohesion of concrete with reduced permeability and improved surface finish with reduced porosity.
- Segregation and bleeding minimized to avoid the risk of honey combing, rock pockets and weak patches, which aids pumping of concrete.
- Chloride free does not corrode the reinforcement.
- Non foaming and non-toxic. Safe in PPC & OPC cement mix.
- It produces the properties of retardation of concrete for 4-5 Hours which helps to avoid cold joints in concrete.
- It reduces the risk of shrinkage because of lower heat of hydration enables casting of large volume of concrete in thin layers thus giving monolithic cast without losing its original strength.

PROPERTIES :

ROOFPLAST SP 45 - having the following properties when tested as per IS standards.

Appearance of product	:	Light brown liquid.
Specific gravity	:	1.220 to 1.228 at 30°C
Chloride content	:	NIL According to IS 456
Air Entrainment	:	Around 1% additional air entrained

TYPICAL RESULTS :

TRIAL TEST RESULTS FOR REFERENCE :

M- 30 Min design with 60% :

Cement OPC	-	(As per IS- 269)
Sand	-	40% (Zone –II)
Aggregate	-	60% (20mm x 5mm)



Trial Test	Cement Kg / M ³	Dosage of ROOFPLAST SP 45 @ 50 Kgs of Cement in Kgs.	W/C Ratio	Slump In (mm)	Compressive Strength (N/MM ²)		
					3 Days	7 Days	28 Days
Referal Concrete (Without mixing Chemicals)	375	Nil	0.55	52	31	44	53
Workable Concrete	375	0.5	0.55	138	32	58	66
Strength Enhanced Concrete	375	0.5	0.45	154	34	62	76

TYPICAL APPLICATION

ROOFPLAST SP 45 can be used

- To Produce Pumpability for pre-stressed concrete in large sections and mass concrete.
- To Produce high strength, high grade concrete M 30 even more by w/c reduction assures low permeability and high early strength.
- To Produce high workability concrete, even no vibration during placing.
- To produce precast concrete/ready mix concrete.
- Ideal to use in payments concrete structural concrete, bridges, highway concrete, light weight and expansive concrete.

ROOFPLAST SP 45 - is compatible with other types of ARMSTRONG admixtures when added separately to the mix. It improves the cohesion of concrete due to high early dispersion of cement particles thus minimizing segregation and improving surface finish.

DOSAGE : Recommended dosage of ROOFPLAST SP 45 : 250 to 500 gms. per bag of 50 Kgs. cement

* Dosage rates will vary depending on the material used, ambient conditions and specific requirements of the project. A over dosage provides very high workability and retardation of setting time.

PACKING : 1, 5, 20 & 225 Kgs.

STORAGE / SHELF LIFE ROOFPLAST SP 45 should be stored at above 5°C

Shelf life when stored under dry warehouse conditions at 30°C is one year.

PRECAUTIONS : ROOFPLAST SP 45 is non – toxic. Any Splashes on the skin should be washed immediately with water. Splashes on the eyes should be washed immediately with water and medical advice should be sought. ROOFPLAST SP 45 is non flammable.

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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