

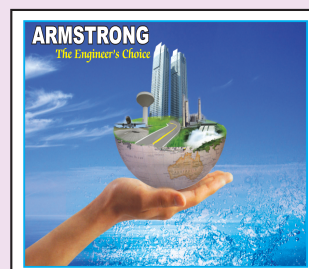
ARMSTRONG CHEMICALS
PVT. LTD., Bengaluru
An ISO 9001 Certified Company

ROOFPLASTTM SP 25

(Super plasticizer and water reducing admixture
(Complies With IS 9013 -99)

DESCRIPTION OF THE PRODUCT

ROOFPLAST SP 25 - Super plasticizer and water reducing admixture is based on specially formulated organic polymers which permits the reduction of the water to cement ratio and disperses the cement particles very effectively in all types of concrete mixes and also provides significant performance in cement hydration process which increases the ultimate strength and produces high workability, pumpability of the concrete at all ages.



ROOFPLAST SP 25 – produces high workability of the concrete mix without loss of slump, thus improve in the quality, durability and impermeability of the concrete mix.

ADVANTAGES :

! Remarkable improvement in the quality and co-hesion of the concrete mix. ! Effective dispersion of the cement particles provides higher strength without increasing in cement content or reduction in workability. ! It reduces the segregation bleeding to avoid the risk of honeycombing rock pockets and weak patches which aids pumping of concrete. ! Chloride free does not corrode the reinforcement. Safe in prestressed concrete production. ! Excellent workability without losing the slump, water cement ratio which enhances the durability and impermeability of the concrete and also reduces the risk of shrinkage or cracking of the concrete.

TECHNICAL SUPPORT :

'ARMSTRONG' advice can be sought on mix design aspects especially to produce high workability concrete without segregation. 'ARMSTRONG' provides advisory service for on site assistance.

PROPERTIES :

Specific Gravity : 1.15 to 1.20 at 25oC
Chloride content : Nil
Setting times : At normal dosage levels without water reduction, retards setting times 1-2 hours approximately.
At higher dosage 2 to 3 Hours approx.
Air Entrainment : Approximately 1% to 1.5% additional air is entrained.

Test OPC Cement 320 Kg./Cub. Mtr. Sand : 730 Kgs. Coarse aggregates 990 Kgs.	Dosage of SP 25 for 50 Kgs. of Ceemnt bag	W/C Ratio	Slum in (mm)	Compressive Strength (N / MM ²)		
				3 days	7 days	28 days
Control	--	0.35	50	25	36	48
Workability increased	0.1 L	0.35	148	29	38	50
Strength Increased	0.1 L	0.30	158	32	40	51



TYPICAL APPLICATION :

COMPATIBILITY: Can be used with all types of Portland and slab cement except High Alumina cements.

WORKABILITY: ROOFPLAST SP 25 can be used to produce flowing concrete that requires no compaction slump concrete without reducing the water content. However, minor adjustments to mix design may be required to produce flowing concrete to prevent bleeding and segregation.

COHESION: Cohesion is improved due to dispersion of cement particles thus minimizing segregation and improving surface finish.

COMPRESSIVE STRENGTH: Early strength is increased upto 40 to 50% if water reduction is taken advantage of. Generally, there is improvement in strength upto 20% depending upon W/C ratio and other mix parameters. Substantial reduction in the water content (10-20%) can result in high early compressive strength for a constant slump.

PERMEABILITY: Reduced water / cement ratio increases density and improves impermeability. Improved workability facilitates easy placing and good compaction.

PUMPABILITY: ROOFPLAST SP 25 will aid pumping of concrete by providing lubrication to cement particles and reducing line friction.

DOSAGE: 100gms to 150gms. per 50 Kgs. Cement. The optimum dosage of ROOFPLAST SP 25 should be determined considering the required workability and strength by site trials.

CURING :

Normal curing methods such as water poring / spray or wet hessian must be used. Where water curing is a problem, efficient curing can be achieved by using ROOFEXCURE WB / WX spray applied curing membrane.

PACKING: 1, 5, 10, 20, 30 & 225 Kgs.

SHELF LIFE: 2 years from the date of manufacture.

PRECAUTIONS :

It is non flammable and 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.

ARMSTRONG products are tested, approved and extensively used in the works of CPWD., State PWDs', Irrigation, Housing Boards, Thermal / Hydel Power Projects, Steel Projects, Road Projects, Water works Projects, MES, Railways & Scores of important projects Internationally.

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

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