



ARMSTRONG CHEMICALS PVT. LTD.,  
Bengaluru  
An ISO 9001 : 2015 Certified Company

# ROOFPLAST SR 35

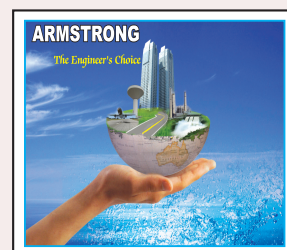
(Chloride free super plasticizer, high range  
water reducing and retarding admixture )  
(Complies with IS 9103 -99  
BS : 5075 Part - 3, ASTM C- 494 Type G )

## DESCRIPTION OF THE PRODUCT :

ROOFPLAST SR 35 - Chloride free super plasticizer, high range water reducing and retarding admixture is a dark brown liquid based on selected lignosulphonates. When added to concrete mixes the admixture is absorbed into the cement particles, then acts as a dispersing agent which breaks down agglomerates of cement particles and enables the water in the mix to perform more efficiently.

It produces high quality concrete by improving durability, water tightness and improves cohesion within concrete mixes in structural and mass concrete with controlled extension of setting time.

**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.



## FEATURES / ADVANTAGES :

- Can be used to produce flowing concrete that requires no compaction. Some minor adjustments may be required to produce high workable mix without segregation.
- Controls the rate of setting of concrete and mortar.
- Long concrete deliveries, hot weather concreting and other applications where high workability retention and retardation are required.
- Reduces segregation in the concrete.
- Improves finished appearance of hardened concrete.
- Reduces shrinkages and permeability of hardened concrete.
- Increases strengths of the concrete and mortar, even at low cement concrete designed mixes.
- Reduces cracking.
- Eliminates formation of cold joints between subsequent pours in mass or structural concrete.

## TYPICAL APPLICATIONS :

- Particularly recommended for concreting in hot climates, long or difficult pours.
- Prestressed concrete in large sections or mass concreting.
- Used in concrete of all classes.
- Structural concrete.
- Bridge decks
- Highway concrete.
- Light weight concrete.
- Expansive concrete.

## TEST RESULTS OF THE CONCRETE SHOWS

### PROPERTIES :

1	Chloride Content	Nil ( IS 456)
2	Specific Gravity	1.165 – 1.190 at 30°C
3	Compatibility	With all types of Cement
4	Setting times	Initial and final set times will related to cement type and ambient temperature.
5	Cohesion / segregation	Improved dispersion of cement particles increased cohesion properties and reduces the probability of segregation and sand runs.

Sl. No.	Test OPC Cement 485 Kg /Cub.Mtr Sand 730 Kgs Coarse aggregates 990 Kgs	Dosage of ROOFPLAST SR 35	W/C Ratio	Slump mm	Compressive strength N/mm <sup>2</sup>			Density Kg / m <sup>2</sup>
					3 Days	7 Days	28 Days	
1	Control	None	0.35	61	28	41	51	2420
2	Workability increased	3 Ltrs.	0.35	132	30	42	52	2418
3	Strength increase	3 Ltrs.	0.35	67	34	34.50	59.50	2530

### APPLICATION INSTRUCTIONS :

#### DOSAGE :

ROOFPLAST SR 35 will normally be added at a rate between 100ml to 300ml Per Bag of 50 Kgs cement, depending on the slump and retardation required. Site trials should be carried out to determine optimum dosage. For applications at higher water reduction and extended setting time with increased workability the dosage may be increased to 250ml to 400ml for 50 Kgs. Cement.

**PACKING :** 5, 10, 20 & 225 Kgs.

**STORAGE :** Minimum shelf life of 12 months provided the temperature has not exceeded 2°C to 50°C. If this is exceeded in any respect, advice should be sought from the supplier.

#### PRECAUTION :

ROOFPLAST SR 35 is non toxic, non-inflammable, any splashes should be washed well with water. If contact with eyes occur it shall be washed immediately with water and medical advice sought immediately.

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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