

# HIND PLAST SUPER™ R

RETARDING CUM WATER-REDUCING ADMIXTURE FOR CONCRETE



## DESCRIPTION

**Hind Plast Super™ R** is a very effective admixture for concrete, based on modified Sulphonate Naphthalene Formaldehyde, conforming to **IS: 9103: 1999** (Reaffirmed 2004) Edition 2.2 (2007 08) and **ASTM C 494 Type D**.

## USES

**Hind Plast Super™ R** is used for high range water reduction in concrete, mortar and shotcrete mixes that enables a user to retain workability without compromising strength.

## ADVANTAGES

- An excellent aid for pumping concrete.
- Keeps concrete in plastic state and workable for long time.
- Placement for concrete in areas for congested reinforcement becomes easier.
- High water reduction enables high ultimate strength.
- Achieves high early strength, enabling faster shipping formwork.
- Arrests shrinkage & creep.
- Enables to save cement in concrete.
- Improves compactness, strength and durability of concrete.

## APPLICATION & DOSAGE

A trial should be conducted against control concrete to fix the exact dose to achieve the desired workability, within the given parameters of the mix design. Varying doses between 0.3 % to 2.0 % by weight of cement, should bring in the desired results. For free technical consultancy, suggestions on mix designs, kindly call our Technical Services Division.

## GUIDELINES

The table below shows laboratory results of the various applications of **Hind Plast Super™ R** to achieve high workability, cement saving, improved strength, etc. to suit specific requirements.

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## Typical Performance of Hind Plast Super™ R

Grade of Concrete (M35A20)	Cement Content (kg./M3)	W/C (Water to Cement ratio)	Hind Plast Super™-R Dose	Initial Slump (mm) (%BWOC)	(After 1 hour) Slump (mm)	28 days Strength (N/mm <sup>2</sup> )	Benefit
M-35	404	0.41	-	25	0	40.28	Normal concrete
M-35	403	0.41	0.5	75	25	46.58	Cement Saving
M-35	403	0.41	0.6	85	50	47.5	High Strength
M-35	426	0.41	0.5	175	115	46.35	Very High Workability, Greater strength
M-35	425	0.41	0.6	190	155	47.0	Cohesive Economical Workable Concrete

## Setting Time Testing for Hind Plast Super™ R

Grade of concrete	Hind Plast Super™ - R Dose ( % BWOC*)	Curing temp.	Initial Set Hrs.	Final Set Hrs.
M-35	Nil (Control)	27°C <u>+</u> 2°C	8	14
M-35	0.5 – 0.6	27°C <u>+</u> 2°C	9	16

\*BWOC : By weight of cement.

(Results obtained with PPC 53 grade cement at 30° C and 65% Rh)

## PROPERTIES

Aspect	Dark Brown Liquid
Specific Gravity	Ranges from 1.05 to 1.22 at 27°C
pH	≥ 6
Chloride Cont	0.2% (max)
Compatibility	With all cements and quicksetting compounds.

## SHELF LIFE

12 months from the date of manufacture in unopened condition. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2°C (Min.) and 50°C (Max.)

## PACKING

250 kg. in HDPE Container or as required.

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## HANDLING PRECAUTION

Hind Plast Super™ R is non-toxic and ingestion is to be avoided. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.



## IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

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✉ contactus@hindcon.com  
☎ +91 33 24490839, 9830599113  
☎ +91 33 24490849  
📍 Kolkata, West Bengal, India

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