

# MARKPLAST HSP 152

(WATER-REDUCING / RETARDING /  
PLASTICISING ADMIXTURE)



## DESCRIPTION

**MARKPLAST HSP 152** is a water reducing/retarding/ admixture which acts on the cement particles in a concrete mixture to make it more workable and helps maintain workability for considerable period. It also helps to maintain cohesion and prevents segregation even when using higher dosage rate.

## FEATURES / ADVANTAGES

- Allows the retention of the original slump over time in addition to the normal properties of a plasticiser
- Improves the density of the concrete and reduces capillary absorption
- Increases the ultimate strength of the concrete
- Chloride free
- Reduces segregation and bleeding
- Micro-Cracks in hardened concrete are reduced to minimum
- Improves the appearance of the concrete

## APPLICATIONS

- Transported concrete
- Ready mix concrete
- Pumped concrete
- Pipe prefabrication
- General reinforced concrete
- Heavy prefabrication

## SPECIFICATION COMPILES

- ASTM C494 TYPE D
- IS 9103 : 1999 C494
- EN 934-2 T3.1/3.2

TYPICAL PROPERTIES	
Type	PolyCarboxylate Ether Based
Density	1.040 ± 0.02 gms/cc
Colour	Pale yellow
Chloride	Nil
Air Content	< 0.5%

## APPLICATION DETAILS

**DOSAGE** : Trials should be conducted to determine the optimum dosage of MARKPLAST HSP 152 for a particular mix. A dosage of 400 to 1800 ml per 100 kg of cement is recommended. This may be changed to higher dosage in high ambient and mixture temperature conditions.

## EFFECT OF OVERDOSAGE

An overdosing of MARKPLAST HSP-152 can result in the following.

- Delay of initial & final set of concrete.
- Increase in plastic shrinkage
- Slight increase in air entrainment
- Increased workability Due allowance should be made for the effect of fluid concrete pressure on formwork, & stripping time should be monitored. In such cases contact our CCR (Construction chemicals representative).

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## WORKABILITY

MARKPLAST HSP 152 retains the workability of concrete in proportion to the amount of product dosage used for trials. The workability loss is dependent on factors such as temperature, type of cement, type of aggregate, the initial workability of mix and methods of transportation of concrete etc. It is recommended that concrete should be properly cured by adopting the suitable method of curing.

## COMPATIBILITY

Compatible with all types of Portland cements, slag & pozzolans such as fly ash, Microsilica/ metakaolin etc. The product must not be used in conjunction with any other admixtures unless prior approval is received from CCPL Technical service Department.

## PACKAGING

50 Kg Can and 225 Kg Drums. Bulk Packing available specially on request



## MARKCHEM SPECIALITIES PRIVATE LIMITED

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## SHELF LIFE

12 months in original unopened packaging.  
Minimum recommended storage temperature is (25°C).

## PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.

