



Regd. No.: 118690/070/071  
**REDATA Pvt. Ltd.**  
Group of Companies



## MARKPLAST HSP 2910

(High Performance Poly-Carboxylated Ether Based Superplasticizer)



### DESCRIPTION

MARKPLAST HSP 2910 is a pale yellow to dark brown coloured liquid based on polycarboxylate polymer. MARKPLAST 2910 is a fourth generation Poly-Carboxylated Ether based super plasticiser for lower and medium grade concrete and mortar. It is an additive for concrete, mortar and plasters.

### FEATURES / ADVANTAGES

- Pronounced increase in the early strength development, resulting in very economical stripping times for precast and in situ concrete.
- Good water reduction, resulting in high density, high strength and reduced permeability for water etc.
- Excellent plasticising effect, resulting in improved flow-ability, placing and compacting behaviour
- Higher cohesion reducing risk of segregation and bleeding
- Improved shrinkage and creep behaviour
- Free from chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced and prestressed steel
- It is compatible with all types of Portland Cement including SRC (Sulphate Resistance Cement) and Cement Fillers / substitutes like PFA, GGBFS and Micro Silica.. Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

### APPLICATIONS

- For ready mix concrete
- High workability concrete
- Precast concrete
- Fast track concrete
- In situ concrete requiring fast stripping time

### SPECIFICATION COMPILES

- IS 9103-1999 and ASTM-C494 Type G.

### TYPICAL PROPERTIES

Type	Poly Carboxylate Ether Based
Density	1.09 ± 0.02 g/cm <sup>3</sup>
Colour	Pale Yellow To Light Brown
pH Value	6 ± 0.2
Chloride	Nil
Air Content	< 0.1%

### APPLICATION DETAILS

DOSAGE: Normal dosage range of MARKPLAST HSP 2910 is 0.4% to 1.7 % by weight. The optimum dosage to meet the specific requirement should always be determined by conducting trial mixes using the materials and conditions that will be experienced in use. Because of variations in job conditions, concrete materials and climatic conditions dosage rates may vary in such cases, contact our CCR (Construction chemicals representative). For Normal grade concrete

M10-M15: Suggested Dosage 0.4% - 0.8%  
M15-M20: Suggested Dosage 0.6% - 1.0%  
M20-M25: Suggested Dosage 0.8% - 1.5%  
M25-M30: Suggested Dosage < 1.5%



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### EFFECT OF OVERDOSAGE

An overdosing of MARKPLAST HSP 2910 can result in the following.

- Delay of initial & final set of concrete.
- Increase in plastic shrinkage
- Severe bleed & segregation of mix
- Due to slight overdosing of MARKPLAST HSP 2910 the ultimate compressive strength of concrete cannot be get affected, providing it is properly compacted & cured. 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)

### WORKABILITY

MARKPLAST HSP 2910 will retain the workability of concrete approx. up to 2 hrs. @25°C. It 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 Litre Can and 225 Litre Drums. Bulk Packing available specially on request

### 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 non performance.