

MARKPLAST FLOW 30 QC 2206

(Concrete Admixture high range water reduction and early strength with hybrid polymer technology)



DESCRIPTION

MARKPLAST FLOW 30 QC 2206 is the super plasticiser based on latest generation polycarboxylic ether polymers, developed using hybrid polymerisation technology. The product has been primarily developed for all grade concrete where the extended performance and early strength acceleration is required. It is suitable for all concrete mixes where water content, improved cementitious material performance accelerated set times reduced curing cost and very early strength characteristics are desirable

FEATURES / ADVANTAGES

- MARKPLAST FLOW 30 QC 2206 dramatically increases early compressive and flexural strength without detriment to ultimate strength
- Allows for reduction of curing time and early stripping of concrete
- Improves cementitious material performance
- Improved adhesion to carbonation and other aggressive atmospheric conditions
- Lower permeability - increased durability
- Early removal of formwork
- Does not contain chloride
- Suitable for use in reinforced and pre stressed concrete
- Good surface finish

APPLICATIONS

- Ready mix concrete
- Best suited in high rise building
- Very High strength concrete
- Production of rheodynamic concrete
- PreCast and Pre-Stressed concrete
- Fast track and self compacting concrete

TYPICAL PROPERTIES	
Type	PolyCarboxylate Ether Based
Density	1.05 ± 0.02 gms/cc at 25°C
Colour	White to Pale Yellow To Light Brown
pH	7 ± 1

APPLICATION DETAILS

DOSAGE: Normal dosage range of MARKPLAST FLOW 30 QC 2206 is 0.3% to 1.2% 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)

EFFECT OF OVERDOSAGE

The effect of overdosing MARKPLAST FLOW 30 QC 2206 is a function of the degree of overdose. When producing high consistency concrete, overdosing will increase the level of consistency and may induce the onset of segregation. Depending on the extent of the overdose, an increase in setting time may also occur, especially in low ambient temperatures and/or when employing Sulfate-resistant portland cements or cement replacement materials. Any situation where an overdose is suspected, careful inspection of the concrete in its plastic state should be conducted. Particular attention to consistency and cohesiveness prior to a decision on the suitability of the concrete for the particular application in question

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WORKABILITY

MARKPLAST FLOW 30 QC 2206 will retain the workability of concrete approx. up to 2 hrs @35°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. Mainly over M-50 mixes MARKPLAST FLOW 30 QC 2206 can be used along with micro silica keeping the flow parameters tight (90 – 110 mm) for high initial and ultimate strength.

PACKAGING

225 Kg Barrels. Bulk Packing available specially on request

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.

SPECIFICATION COMPILES

- ASTM C494 TYPE G
- IS 9103 : 1999
- IS 2645:2003

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.



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