

Product Description

TechnoCrete GF is a conventional concrete admixture based on a blend of sulphonated naphthalene formaldehyde condensates and other specially selected organic polymers, combining the properties of super plasticizer giving large water reduction at a given workability. It can be used as ASTM type G & F depending upon the dosage used. It has excellent slump retention as well as good set retardation property of concrete. It produces very cohesive concrete with good flowability.

Standard Compliance

Conforms to IS: 9103-1999, (reaffirmed 2004), Edition 2.2 (2007-2008), ASTM C494/C494M-08a, Type F & G, & BS EN 934

Uses

- Produces low to medium grade pumpable concrete with medium slump retention (suitable for site batch concrete).
- It can be used with little higher dosage in the mass concrete where excessive retardation is required to avoid cold joint of concrete.
- It can be used in the mass concrete where low heat of hydration is desirable.

Advantages

- Improves workability/flow properties with reduced amount of water resulting cohesive concrete, easire/quicker placing and compaction and better surface finish.
- Improves both early and ultimate strength due to low cement ratio while maintaining the same workability
- Increases durability of the concrete in terms of impermeability, less susceptible to chemical attack and reduced shrinkage cracks due to lower W/C ration and less cement paste content.

- Initiates low heat of hydration & thus less possibility of generating micro cracks in transition zone of concrete
- Saves cement substantially approx. (10-20%) due to reduced cement & water content at a given workability & hence better cost engineering

Compatibility

It is a compatible with all type os Cements except high alumina cement. Also compatible in comibation with fly ash and other TechnoCrete Admixtures. Site trial is essential to optimise the dosage.

Technical Properties

Color	Dark Brown Liquid
Chemical Basis	Sulphonated Napthalene
Specific Gravity	1.14± 0.04 (at 27 °C)
pH Value	7± 1
Chloride	Nil (according to BS EN 934)
Air Entrainment	May increase marginally/less than 1%. Addnl. air is entrained within the recommended dosage
Effect on setting time	Very nominal at normal dosage. Higher dosage may show over retardation
Compatibility	TechnoCrete GFH is generally compatible with other Techno Greens SNF Based Admixtures, but it is recommended that all admixtures be added to concrete separately.

Dosage

The optimum dosage should be determined by site trial with the particular concrete mix. Over dosing should be avoided. The rate of addition is generally 0.8% to 2% by wt of cement depending upon the requirement of water reduction, slump retention and set retardation.

Important:Technkem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technkem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

For Complaints/Suggestions:

Please write to our Customer Care Executive at

TechnoKem Manufactures of Construction Chemicals

#301, Krishna Classic, Road No.17,
Plot No. 51, Sardar Patel Nagar,
Kukatpally, Hyderabad - 500085,
Off: 040 - 29559256



info@technkem.com

www.technkem.com

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