TechnoKem
tailor made

# TechnoCrete GFH

High Performance Slump Retaining
Superplasticising Admixture

## Product Description

TechnoCrete GFH is a high range water reducing super plasticiser for high strength concrete and concrete containing high proportion of GGBFS, silica fume and any other cement replacement materials. The plasticising action of TechnoCrete GFH enables the production of high workability concrete, which maintains the workability for prolonged periods even at high ambient temperatures.

TechnoCrete GFH is a chloride free super plasticising admixture formulated from specially selected organic polymers.

## Uses

TechnoCrete GFH is used where a high degree of workability is required and also as an aid to workability retention where delays in transportation or placing are likely or when high ambient temperatures cause rapid slump loss. To facilitate production of high quality concrete of improved durability and water tightness.

## Advantages

- Speeds Construction : Increased workability reduces placing time, equipment and labour element
- Reduced Permeability: Better dispersion, reduces porosity and improves water penetration resistance
- Reduced Segregation: Increased cohesion minimises segregation and bleeding, improving surface finish
- Longer Placing Time: TechnoCrete GFH gives greater usable life of concrete at high ambient temperatures because of its unique workability retention potential
- Improved Pumpability: Increased workability and cohesion aids pumping by reducing line friction, dry packing and slump loss due to temperature
- Chloride Free: Safe in prestressed, reinforced or marine concrete and compatible with sulphate resisting cement or marine aggregate

## Standard Compliance

TechnoCrete GFH complies with the requirement of ASTM C 494-80 as a Type G and F standard.
Conforms to IS: 9103-1999,(reaffirmed 2004),

## Properties

| | |
|---|---|
| Specific Gravity | : 1.20 ± 0.04 |
| pH value | : 7±1 |
| Color | : Brown |
| Chloride content | : Nil to IS:456 |
| Setting Time | : TechnoCrete GFH when used at the recommended dosage level may retard the setting of concrete. |
| Air entrainment | : Less than 1.5% |
| Compatibility | : TechnoCrete GFH is generally compatible with other Technokem SNF Based Admixtures, but it is recommended that all admixtures be added to concrete separately. |
| TechnoCrete GFH can be used with all types of Portland cements. | |
| Mix Design | : As with all admixtures that produce flowing concrete, the design technique should be based on high cohesion pump mix technology. |

## Application Instructions

**Dosage**
It is recommended that the optimum dosage is determined by site trials with the actual concrete mix. As a guide the rate of addition is generally in the range 0.35 to 0.90 litres/100 kg cement for normal mixes & 0.5 to 1 litre/100 kg for high cement content mixes. The higher dosage is used where "flowing concrete" is required and may be found necessary to modify concrete mix proportions.

**Curing**
Normal curing methods such as water spray, wet hessian or a Concure curing membrane should be used.

**Cleaning**
Spillages of TechnoCrete GFH can be removed with water.

**Over Dosing**
An overdosage of TechnoCrete GFH, will result in very high workability and some refardation of setting time will occur. However, the ultimate compressive strength will not be impaired.
Incase of overdosage good concreting practices such as curing and delay of de-shuttering should be accounted for.

## Packaging

TechnoCrete GFH is available in 250kgs carbouys

## Shelf Life

TechnoCrete GFH has a minimum shelf life of 12 months when stored in unopened containers below 35 $^{0}$C

## Health & Safety

TechnoCrete GFH is non toxic. Any splashes should be washed off with water. If contact with eyes occurs, wash immediately with water and seek medical advice.

**Fire**
TechnoCrete GFH is non flammable.

**Important:** Technokem 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,Technokem 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

JAS-ANZ
info@technokem.com
**www.technokem.com**
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