



# ZURAPLAST - GFM

High Range Water Reducing, Retarding cum Slump Retainer  
Superplasticiser for Concrete

## PRODUCT DESCRIPTION

ZURAPLAST-GFM 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 ZURAPLAST-GFM enables the production of high workability concrete, which maintains the workability for prolonged periods even at high ambient temperatures. ZURAPLAST-GFM is a chloride free super plasticising admixture formulated from specially selected organic polymers.

## USES

ZURAPLAST-GFM 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:** ZURAPLAST-GFM 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

ZURAPLAST-GFM complies with the requirement of ASTM C 494-80 as a Type G and F standard.

Conforms to IS: 9103-1999,(reaffirmed 2004),

## TECHNICAL DATA

<b>Specific Gravity</b>	1.18 ± 0.02
<b>pH value</b>	7±1
<b>Color</b>	Brown
<b>Chloride content</b>	Nil to IS : 456
<b>Setting Time</b>	: ZURAPLAST-GFM when used at the recommended dosage level may retard the setting of concrete.
<b>Air entrainment</b>	: Less than 1.5%
<b>Compatibility</b>	: ZURAPLAST-GFM is generally compatible with other PROZURA SNF Based Admixtures, but it is recommended that all admixtures be added to concrete separately.
ZURAPLAST-GFM can be used with all types of Portland cements and also works well in concrete mixes with slag/flash	
<b>Mix Design</b>	: 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 -0.90L/100kg cement for normal mixes & 0.5-1L/100kg 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 curing membrane should be used.

### Cleaning

Spillages of ZURAPLAST-GFM can be removed with water.

### Over Dosing

An overdosage of ZURAPLAST-GFM, will result in very high workability and some retardation 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.

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## PACKAGING

ZURAPLAST-GFM is available in 250kgs carboys

## SHELF LIFE

ZURAPLAST-GFM has a minimum shelf life of 12 months when stored in unopened containers below 35°C

## HEALTH & SAFETY

ZURAPLAST-GFM 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

ZURAPLAST-GFM is non-flammable

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**Important:** 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, **Prozura Construction Chemicals Pvt. Ltd.** 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.

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