

# CHEMITO SIGMA FLOW 2785

## New Generation Super Plasticizing Admixture

# CHEMITO

CONSTRUCTION CHEMICAL COMPANY

Stronger Construction Stronger Nation

### DESCRIPTION:

CHEMITO SIGMA FLOW 2785 is the latest development of superplasticizer for concrete. It meets the requirements for high range water reducing superplasticizers.

### STANDARDS:

CHEMITO SIGMA FLOW 2785 complies with ASTM C 494-1981 Type G

### DOMAINS OF APPLICATION/USES:

- CHEMITO SIGMA FLOW 2785 can be used for:
  - All cement and cementitious material
  - Ready mix concrete
  - Provides high water reduction and improved fresh concrete characteristics
  - Unique multipurpose superplasticizer
  - Single admixture for wide range of concrete
  - Concrete at mild to cold temperatures
  - Highly efficient concrete applications

### ADVANTAGES:

- CHEMITO SIGMA FLOW 2785 provides the following beneficial properties:
  - Substantial improvements in workability Flow properties without any increase in water, produces self-compacting concrete
  - The bond strength of concrete to reinforcing steel is considerably increased.
  - Extended workability in conjunction with subsequent strength development.
  - Very significant water reduction minimizes shrinkage or cracking, producing close textured impervious concrete with improved durability and surface finish.
  - This is of particular importance in liquid retaining and water bearing structures.
  - Surface water, water under pressure and aggressive atmospheric conditions.
  - For a given concrete mix keeping the cement consumption and workability constant, large reduction in the amount of mixing water can be achieved.

### HANDLING:

CHEMITO SIGMA FLOW 2785 is formulated from chemicals, which present no fire or health hazards.

### CHARACTERISTICS:

<b>CHEMICAL BASE</b>	: Modified Polycarboxylate
<b>APPEARANCE</b>	: Colorless Liquid
<b>SPECIFIC GRAVITY</b>	: 1.06±0.02
<b>pH</b>	: Min. 6.0
<b>CHLORIDE CONTENT</b>	: Nil as per BS – 5075(Part-1)

### METHOD OF USE:

**Dosage:** Optimum dosage can only be established after trials, taking into account the rheological characteristics and the required mechanical performances. Rate of addition is generally in the range of 0.4-2.0% by wt of Cement and cementitious material.

For the maximum dispersion throughout the mix, CHEMITO SIGMA FLOW 2785 should be added to the mixing water only. The product Should be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed and the n at low speed.

### PACKAGING & STORAGE:

- CHEMITO SIGMA FLOW 2785 is available in the following pack:
  - 250 kg HDPE container
- Shelf life is 12 months in sealed containers as
- provided under ambient temperature
- Keep containers sealed and away from heat and cold in a well-ventilated area
- Protect from direct sunlight and frost
- Stir material well before use

### RATE OF ADDITION:

With small dosage the increment of slump is more. The dosage depends on the cement content and the W/C ratio.

### PRECAUTIONS:

Not to be stored at high temperatures for long periods. Should be protected from frost. It is Non-toxic and formulated from chemicals which present no fire of health hazards.

### HEALTH & SAFETY:

- Protect hands with rubber gloves and eyes with goggles.
- This chemical is harmless to human body.
- Accidental splashes to the skin or eyes must be rinsed immediately with clean water.
- Store in well-labeled containers.
- Non dangerous goods, please observe Material Safety datasheet

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