

CHEMFIT FLOWMAX 1000

Powerful Concrete Plasticizer-Retarder for Difficult Climatic Conditions

PRODUCT DESCRIPTION

ChemFit FlowMax 1000 is a powerful concrete plasticizer and set-retarding admixture specifically formulated for producing high-quality concrete under difficult climatic conditions. It improves workability while delaying setting time, making it ideal for hot weather concreting and long-distance transport.

PRIMARY APPLICATIONS

ChemFit FlowMax 1000 is recommended for use in conditions such as:

- Ready-mixed concrete with long transport distances
- Fair-faced and architectural concrete
- High-temperature concreting (hot weather conditions)
- Mass concrete pours to control heat generation
- Precast and prestressed concrete
- Areas with difficult placing conditions

KEY FEATURES AND BENEFITS

- **Powerful plasticizer** – Improves workability without increasing water content
- **Set-retarding action** – Extends setting time for difficult placements
- **Ideal for hot weather** – Prevents rapid setting in high temperatures
- **Chloride-free** – Safe for reinforced and prestressed concrete
- **Liquid form** – Easy to dispense and mix
- **Long slump retention** – Maintains workability over extended periods

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Liquid
Color	Brown / Amber
Specific Gravity	1.18 ± 0.02 at 25°C
pH Value	7.0 – 9.0
Chloride Content	Nil ($\leq 0.1\%$)
Water Reduction	8 – 15%
Set Retardation	2 – 6 hours (depending on dosage & temperature)

PACKAGING AND STORAGE

Packaging:

- 200 L drums
- 1000 L IBCs (Intermediate Bulk Containers)

Storage:

- Store in original sealed containers at +5°C to +40°C
- Protect from direct sunlight, frost, and extreme heat

Shelf life: 12 months from date of manufacture

DOSAGE AND COVERAGE RATES

Recommended Dosage: 0.3% – 1.0% by weight of cement

Example (50 kg cement bag): 0.15 – 0.50 kg (\approx 130 – 440 ml) per bag

Yield per 200 L drum: Approx. 400 – 1,330 bags of cement (20 – 66 tons of cement)

Yield per 1000 L IBC: Approx. 2,000 – 6,660 bags of cement (100 – 330 tons of cement)

Dosage Guidelines:

Low dosage (0.3%): Mild plasticizing effect, minimal retardation

Medium dosage (0.5-0.7%): Standard plasticizing with moderate retardation

High dosage (0.8-1.0%): Maximum water reduction and extended retardation for hot weather

NOTE: Concrete trial mixes shall be carried out to confirm optimal dosage for specific project requirements.

APPLICATION GUIDELINES

Dispense directly into mixing water or when 70% of water has been added. Mix for minimum 2–3 minutes. Compatible with all Portland cements. Do not pre-mix with other admixtures in concentrated form. If overdosed, set retardation increases significantly – keep concrete moist during extended setting period. Higher dosages within the range (0.8-1.0%) are recommended for high temperatures (above 35°C) or transport times exceeding 1 hour.

HEALTH AND SAFETY

Not classified as hazardous. Avoid eye and prolonged skin contact. For eye contact, rinse with water for 15 minutes. For skin contact, wash with soap and water. If swallowed, do not induce vomiting – rinse mouth and drink water. Use nitrile gloves and goggles during handling. Refer to SDS for detailed information.

CLEANING OF TOOLS

Clean all equipment with water immediately after use.

APPROVALS AND STANDARDS

Conforms to:

ASTM C494 / C494M – Type B (Retarding Admixture)

ASTM C494 / C494M – Type D (Water-Reducing & Retarding Admixture)

Additional compliance (if applicable):

BS EN 934-2 – Tables 3.1 & 3.2

IS 9103 – Latest revision

LEGAL NOTES

All technical data provided in this Product Data Sheet is based on laboratory testing under controlled conditions. Actual field performance may vary due to differences in substrates, application methods, site conditions, and environmental factors. ChemFit makes no warranty of merchantability or fitness for a particular purpose. Users shall conduct their own trials to validate product suitability for the intended application. ChemFit reserves the right to modify product specifications without prior notice. For the most current documentation, request the latest Product Data Sheet and Safety Data Sheet from ChemFit.

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