

FUERZA RAPIDO

DYNAMIC STRENGTH SUPER PLASTICIZER & CONCRETE ACCELERATOR

FUERZA RAPIDO is a high-performance, naphthalene-based superplasticizing admixture formulated to substantially reduce mixing water demand while promoting rapid early-age strength development and enhanced ultimate compressive strength. Its advanced dispersing action improves cement particle dispersion and concrete rheology, enabling the production of high-strength, dense, and durable cementitious systems.

The admixture is particularly advantageous under low-temperature conditions, where conventional accelerating admixtures may be employed to reduce initial setting time. **FUERZA RAPIDO** is **chloride-free**, non-corrosive to embedded steel reinforcement, non-toxic, low-odour, and non-flammable, making it suitable for applications requiring enhanced performance, durability, and material compatibility.

KEY PERFORMANCE BENEFITS

- **Enhanced Workability:** Significantly improves concrete workability and rheological properties without increasing the mixing-water content or inducing segregation.
- **Controlled Setting:** Maintains normal setting characteristics without undesirable retardation, including under moderate overdosing conditions.
- **Improved Density & Finish:** Promotes a denser, more cohesive concrete matrix with enhanced surface uniformity and superior finishing characteristics.
- **Enhanced Impermeability:** Reduces capillary porosity and permeability, contributing to improved resistance against water and moisture ingress.
- **Reduced Segregation & Bleeding:** Enhances mix cohesion and stability, minimizing aggregate segregation and surface bleeding during placement and consolidation.
- **Broad Cement Compatibility:** Suitable for use with a wide range of cementitious binders, including Portland cement, Ordinary Portland Cement (OPC), Portland slag cement, fly-ash cement, and Portland pozzolanic cement, among others.
- **In-Situ Slump Enhancement:** Can be introduced directly into the concrete mixing truck to effectively restore or increase slump and improve placement workability without compromising the designed water-to-cementitious-material ratio.

STANDARDS COMPLIANCE

Conforms to the performance and classification requirements specified in **ASTM C494/C494M, Types A and F**, for chemical admixtures intended to provide water reduction and high-range water-reducing performance in hydraulic-cement concrete.

TECHNICAL INFORMATION

Supply form:	Liquid
Specific gravity:	1.07
Color:	Dark brown

FEATURES & APPLICATIONS

- **Non-Corrosive Acceleration:** Accelerates setting and early strength development without corrosion of steel reinforcement.
- **Controlled Set:** Provides dosage-dependent control over acceleration.
- **High Workability:** Produces high-slump, flowing concrete without compromising strength.
- **Low W/C Ratio:** Enables high-strength concrete with reduced water-to-cement ratios.
- **Versatile Applications:** Suitable for high-strength, flowing, precast, steam-cured, early-strength, and prestressed concrete.
- **Formulation Versatility:** Suitable as a base component for accelerating, retarding, water-reducing, pumping, and antifreeze admixture systems.

DOSAGE & OPTIMIZATION

FUERZA RAPIDO is typically dosed at **1.0–2.5 L per 100 kg of cementitious material**. Increasing the dosage progressively enhances the acceleration of setting. Preliminary trial mixes are recommended to establish the optimum dosage required to achieve the desired performance with the specific cementitious constituents, aggregate system, and mix design.

CLEANING

Clean all application equipment, tools, and utensils immediately after use with **clean water** to prevent material buildup and ensure proper maintenance of equipment.

HEALTH & SAFETY PRECAUTIONS

FUERZA RAPIDO is not classified as hazardous under applicable current regulations; however, standard chemical-handling precautions shall be observed. Avoid ingestion and contact with skin or eyes. Wear suitable **chemical-resistant gloves and safety goggles** during handling and application.

- In case of skin contact, wash thoroughly with clean water.
- In case of eye contact, rinse immediately with copious amounts of clean water and seek medical attention if irritation persists.
- If swallowed, obtain immediate medical assistance. **Do not induce vomiting.**
- For comprehensive safety, handling, storage, and emergency-response information, refer to the current **Safety Data Sheet (SDS)** for **FUERZA RAPIDO**.

PACKAGING & STORAGE

FUERZA RAPIDO is supplied in **210 L drums** and **1,000 L bulk tanks**. When stored in its original sealed packaging, under cover and protected from direct sunlight and excessive heat, the product maintains a **minimum shelf life of 12 months**.

IMPORTANT NOTE:

FUERZA has taken all reasonable measures to ensure that the technical information provided herein is accurate, reliable, and based on current knowledge and practical experience. However, no express or implied warranty is provided, as the conditions of substrate, site environment, application methods, and the competence of personnel involved in installation are beyond the manufacturer's control. Consequently, the user is responsible for verifying the product's suitability and performance under the specific intended conditions of use.

