

FUERZA POZZON

FLY ASH ADDITIVE FOR HIGH PERFORMANCE CONCRETE

FUERZA POZZON Class F is a next-generation, finely powdered concrete performance enhancer formulated to improve **compressive strength, workability, durability, and long-term mechanical performance**. It reduces water penetration and mitigates key deterioration mechanisms, including **efflorescence, drying shrinkage, thermal cracking, alkali-silica reaction (ASR), and sulfate attack**. The admixture also enhances internal cohesion and substrate bonding while minimizing segregation, resulting in a denser, more stable, and durable concrete matrix.

ADVANTAGES

FUERZA POZZON contains ultra-fine reactive silica, which enhances internal particle bonding, water retention, and matrix densification. When used in conjunction with **FUERZA superplasticizers**, it provides the following performance benefits:

- **Exceptional workability** with improved concrete rheology.
- **Enhanced durability** and long-term performance.
- **Significantly reduced chloride ion diffusion.**
- **Accelerated early-age strength development.**
- **Improved resistance to erosion and surface degradation.**
- **Enhanced watertightness** through reduced permeability.
- **Increased ultimate compressive strength.**
- **Improved handling, placement, and consolidation efficiency,** providing economic benefits.

APPLICATIONS

FUERZA POZZON is suitable for structural, precast, and specialized concrete applications where enhanced fresh-state workability, mechanical performance, durability, and long-term service life are required, including:

- Power generation facilities
- Dams, highways, and major infrastructure
- High-rise and high-load structures
- Bridges, tunnels, and underground structures

TECHNICAL INFORMATION

pH value:	4-12
Specific gravity:	2.0-2.9
Bulk density:	154.2 PCF
Retained on a 325 sieve:	26.6%

STANDARDS COMPLIANCE

FUERZA POZZON complies with the applicable **chemical, physical, and performance requirements of ASTM C618**, governing pozzolanic materials for incorporation into hydraulic-cement concrete and cementitious systems.

DOSAGE & MIXING

The recommended dosage of **FUERZA POZZON** is **20–30% by weight of cement**. For optimum concrete performance, it should be used in conjunction with **FUERZA superplasticizers**. Incorporate FUERZA POZZON into the dry cementitious constituents prior to water addition and mix for approximately **90 seconds** to achieve uniform dispersion. Adjust the mixing-water content in accordance with the selected FUERZA POZZON dosage and required concrete consistency.

CHEMICALS	COMPOSITIONS
Quartz (SiO ₂)	59.9
Calcium oxide (CaO)	11.5
Iron oxide (Fe ₂ O ₃)	4.8
Aluminum oxide (Al ₂ O ₃)	14.3
Sulphur trioxide (SO ₃)	1.1
Sodium oxide (Na ₂ O ₃)	0.6
Potassium oxide (K ₂ O)	0.4
Moisture content	0.2
LOI	2.4

PACKAGING & STORAGE

Packaging: Supplied in **20 kg bags**, with special packaging configurations and bulk supply available upon request.

Storage: Store in the **original, sealed packaging** under cool, dry conditions, protected from direct sunlight and moisture. Keep the bags in a stable, flat position to preserve packaging integrity and material quality.

