

FUERZA CRISTA-GUARD

CRYSTALLINE WATERPROOFING, CEMENT & MORTAR POWDER ADMIXTURE

FUERZA CRISTA-GUARD is a crystalline waterproofing admixture designed for incorporation into concrete. Upon hydration, its active chemical constituents react with moisture and cementitious by-products to generate insoluble crystalline structures within the concrete matrix. These crystals penetrate and permanently seal capillary pores, micro-cracks, and voids, significantly reducing water permeability while enhancing the long-term durability and water-tightness of the concrete.

APPLICATORY AREAS

FUERZA CRISTA-GUARD is applied internally & externally, it can be used for any water retaining and water excluding applications including the

Waterproofing and protection of:

Tunnels & Dams

Precast Concrete
elements

Foundations &
basements

Potable water tanks

Waste water tanks

Swimming pools

Elevator pits

And more...

TECHNICAL INFORMATION

Supply form:	Powder
Color:	Grey
Density:	1.04 g/cm ³
Appearance:	Powder
Mixing:	With water
Application temp:	+5°C to +35°C
HS Code:	3824.40.00.00.00

FEATURES & BENEFITS

- Provides integral protection against both positive and negative hydrostatic water pressure up to **14 bar**.
- Exhibits exceptional resistance to sustained hydrostatic pressure in below-grade and water-retaining structures.
- Forms a permanent crystalline waterproofing system through the development of insoluble nano-crystalline structures within the concrete capillary network.

- Chemically active throughout the service life of the concrete, enabling continuous waterproofing performance in the presence of moisture.
- Seals capillary pores, micro-voids, and static cracks up to **0.4 mm**, significantly reducing water ingress.
- Maintains waterproofing integrity even if the concrete surface is mechanically damaged or subjected to abrasion.
- Vapor permeable, allowing the concrete to breathe while preventing the penetration of liquid water.
- Certified non-toxic and suitable for use in potable water reservoirs, water tanks, and other water-retaining structures.
- Eliminates the need for supplementary surface-applied waterproofing membranes or coatings in most applications.
- Suitable for waterproofing bored piles, raft foundations, basements, tunnels, and other below-ground concrete structures.
- Easy to incorporate into conventional concrete mixing procedures without requiring specialized application techniques.
- Environmentally safe, non-hazardous after curing, and compliant with sustainable construction practices.

CONSUMPTION

FUERZA CRISTA-GUARD shall be incorporated into the concrete mix at a dosage of **1–2% by weight of the total cementitious content**.

CAUTIONS

- Maintain a **water-to-cement (W/C) ratio not exceeding 0.55** to achieve optimum performance and durability.
- Avoid direct skin contact with the product. Wear appropriate personal protective equipment (PPE) during handling and application.
- Do not apply under freezing conditions or during rainfall or other forms of precipitation.
- Protect freshly applied material from rain, frost, standing water, mechanical disturbance, and excessive humidity until it has fully cured.
- Application shall only be carried out when both ambient and substrate temperatures are between **+5°C and +35°C**.

PACKAGING AND STORAGE

FUERZA CRISTA-GUARD is packaged in 20 kg bags. **Shelf Life:** 12 months from the date of manufacture when stored in its original, unopened packaging under recommended storage conditions.

