

FUERZA REFORZA

NON-SHRINK WATERPROOFING HIGH STRENGTH THIXOTROPIC REPAIR GROUT

FUERZA REFORZA is a **ready-to-use, non-shrink, waterproof, thixotropic, high-strength repair grout** formulated to provide exceptional adhesion, compactness, and durability. It is specifically engineered for the **structural repair of weakened concrete, honeycombed areas, and defective construction joints**. Its highly compacted granular matrix minimizes permeability and helps **retard carbonation and associated deterioration**.

APPLICATIONS

- **Non-shrink formulation** ensuring dimensional stability and minimizing shrinkage-induced cracking.
- **Non-bleeding and non-sweating** characteristics for improved surface integrity.
- **High mechanical strength** for demanding structural repair applications.
- **Normal-setting with rapid strength development** for efficient repair cycles.
- **High early-age strength within 24 hours** to facilitate faster service reinstatement.
- **Excellent resistance to seawater and high-sulphate environments**, supporting long-term durability.
- **Thixotropic rheology** enabling controlled application on vertical and overhead surfaces.
- **Waterproof composition** providing enhanced resistance to water penetration.

SCOPE OF APPLICATION

- **Concrete Surface Rehabilitation:** Repair of defective, deteriorated, or damaged concrete surfaces.
- **Structural Elements:** Suitable for the repair of **columns, beams, and other reinforced concrete members**.
- **Honeycomb & Spalled Concrete:** Restoration of areas affected by **honeycombing, surface spalling, voids, and localized concrete defects**.
- **Construction Joints:** Repair and reinstatement of defective or damaged **construction joint interfaces**.
- **Retaining Structures:** Suitable for the rehabilitation and repair of **retaining walls and associated concrete structures**.

TECHNICAL INFORMATION

Supply form:	Powder
Color:	Grey
Yield:	2-3 m ² /liter/coat
Mortar density:	Approx. 13 liter mortar/25 kg bag
pH:	12
Thickness:	2-50 mm in one coat
Flexural strength:	8 MPa at 28 days
Compressive strength:	50 MPa at 28 days

STANDARDS COMPLIANCE

FUERZA REFORZA complies with the requirements of **ASTM C942, ASTM D4541, BS 1542, BS EN 12190, and BS EN 196-1**, demonstrating conformity with recognized standards for mechanical performance, adhesion, and cementitious material properties.

INSTRUCTIONS FOR USE

Substrate preparation:

FUERZA REFORZA can be applied to all **sound, stable mineral substrates**, including concrete, masonry, rock, and similar construction materials. Remove all defective concrete and laitance by **mechanical chipping, jack-hammering, cold chiselling, or concrete planing** until a sound, clean, and suitably roughened substrate is achieved. Repair areas should have well-defined edges; **feathered edges must be avoided**. Remove all traces of grease, oil, dust, and other contaminants. Thoroughly saturate the substrate with clean water immediately before application and, where practicable, approximately **6 hours prior to application**.

Product preparation:

Add approximately **3.75–4.25 L of clean water** to each **25 kg bag of FUERZA REFORZA**. Mix thoroughly until a uniform, homogeneous repair mortar is obtained. The mixed material must be used within **1 hour** of preparation. **Do not re-temper or remix the material by adding additional water** after the initial mixing.

Product application:

Apply FUERZA REFORZA using a **steel trowel**, exerting firm pressure to ensure intimate contact with the prepared substrate and eliminate voids. Strike off and level the repaired surface using a mason's board, followed by suitable finishing as required. Immediately after completion, apply an appropriate **curing compound** to protect the repair against premature moisture loss caused by wind and direct sunlight.

The recommended application temperature is between **+5°C and +35°C**. When ambient temperatures exceed **35°C**, use cool mixing water to maintain the temperature of the mixed mortar below **30°C**.

Consumption:

The approximate material consumption is **2 kg/m² per mm of applied thickness**.

SAFETY PRECAUTIONS

FUERZA REFORZA contains **cementitious powders** which generate an alkaline medium when mixed with water and may cause skin and eye irritation. Application should preferably be carried out in a **well-ventilated area**, with appropriate **protective gloves, safety goggles, and respiratory protection** to minimize exposure to dust. Avoid inhalation of powder during handling and mixing. In case of skin contact, wash thoroughly with **soap and clean water**. If the product enters the eyes, rinse immediately and thoroughly with clean water and seek medical attention if irritation persists. If swallowed, **do not induce vomiting** and obtain immediate medical attention. FUERZA REFORZA is **non-flammable**.

PACKAGING & STORAGE

FUERZA REFORZA is supplied in **20 kg bags**. When stored in its original, unopened packaging under **dry, covered conditions**, protected from moisture, direct sunlight, and extreme temperatures, the product has a **shelf life of 12 months from the date of manufacture**.



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