

FUERZA NS-GROUT

GENERAL PURPOSE NON-SHRINK HIGH STRENGTH CEMENTITIOUS GROUT

FUERZA NS-GROUT is a premium, standard-setting waterproof repair compound for concrete. Engineered to withstand wet conditions, it is formulated from hydraulic cement, advanced additives, and ASTM C33 graded sand. The product contains no metallic components and is free from added chlorides. When mixed with water, it creates a smooth, workable repair mix suited for applications requiring rapid strength development, exceptional durability, and minimal to no shrinkage. FUERZA NS-GROUT delivers structural-grade strength.

TYPICAL APPLICATIONS & ADVANTAGES

- Excellent initial flow and flow retention.
- High early and ultimate strength facilitates rapid installation and durability of the hardened grout respectively.
- Dual expansion in plastic and hardened phases.
- Impermeable and resistant to oil and water.
- Suitable for pumping or pouring over a large range of application consistencies and temperatures.
- Suitable for grouting and anchoring of UPVC pipes service penetration

USES

- Used for free flow precision grouting, bedding and void filling applications.
- Used in a wide range of heavy duty applications such as Bridge bearings foundation, Crane rails, general repair, column jacketing, anchor bolt fixing, machine base plates, etc.
- Used for space grouting precast concrete panels and floor repairs.
- Used as a grouting and anchoring agent for UPVC pipes service penetration.

TECHNICAL INFORMATION

Supply form:	Powder
Density:	2150 kg/m ³
Yield:	12.50 litres
Volume Expansion:	3.6%

Compressive Strength

@ 3 days: >40 N/mm²

@ 7 days: >50 N/mm²

@ 28 days: >60 N/mm²

STANDARDS COMPLIANCE

FUERZA NS-GROUT complies with the requirements of the following standards: ASTM C 579 – 01 Method B ASTM C 940 - 89

DIRECTIONS FOR USE

Surface Preparation:

Make sure the surface is clean and free from dust, dirt, oils, laitance, paint, curing agents and similar contaminants. Clean out bolt holes and fixing recesses to remove all debris. Saturate the grouting area with clean water for 24 hours beforehand to reduce absorption and promote proper grout flow. Just before placing the grout, remove any excess water and ensure all bolt holes and pockets are blown dry.

Base plates and bolts must be clear of grease, oil, and surface coatings. All equipment should be positioned and secured prior to grouting. Confirm that formwork is tight and leak-proof to avoid grout loss or displacement during installation and curing. Formwork tape is advised. In hot weather, keep FUERZA NS-GROUT and the grouting zone cool and protected from direct heat.

Mixing:

Use 3–4 liters of water per 25 kg bag to achieve consistent on-site performance. A small increase (up to 10%) may be used in extremely hot or dry grouting conditions. Before starting, confirm that enough FUERZA NS-GROUT is on hand to finish the entire grouting process. Make sure the mixer is damp but contains no excess water. Pour the measured water into the mixer first, then gradually add the full bag of FUERZA NS-GROUT. In high temperatures, chilled water is recommended. Mix for a minimum of 5 minutes until a smooth, uniform, and lump-free grout is obtained.

Application:

FUERZA NS-GROUT can be applied in single pours ranging from 10 mm to 100 mm for standard grouting work. Fill bolt holes and recesses before grouting the space between the base plate and substrate. To improve grout movement, metal straps or chains may be positioned within the formwork before placement. Pour continuously from one side of the cavity to prevent air entrapment, and work across the shortest flow path. Keep a steady head pressure to maintain an uninterrupted grout front. For larger placements, a diaphragm pump is advised. Try to avoid creating exposed grout shoulders, as they can cure at a different rate from the main mass due to temperature and volume variations, which may lead to cracking or loss of bond. If shoulders are unavoidable, secure them with reinforcement.

Curing:

After grouting is finished, all exposed surfaces must be properly cured following standard procedures, using methods such as water curing, wet hessian coverings, or an approved curing compound.

PACKAGING

FUERZA NS-GROUT comes in 20 kg bags and can be kept for at least 12 months when stored in a sheltered location away from direct sunlight.

HEALTH & SAFETY PRECAUTIONS

FUERZA NS-GROUT is not classified as hazardous under current regulations, but it should not be ingested or allowed to come into contact with the eyes or skin. Appropriate protective gloves and safety eyewear should be used. Rinse any skin splashes with water. If the product gets into the eyes, flush thoroughly with clean water and obtain medical attention. If ingested, seek medical help immediately—do not induce vomiting. For more details, consult the product's Material Safety Data Sheet.

IMPORTANT NOTE

FUERZA CONSTRUCTION CHEMICALS aims to provide technical information that is correct, reliable, and reflects our expertise and experience. However, no guarantee is expressed or implied, since the conditions of application and the skill of those carrying out the work are outside our control.

