



FESTERGROUT NM 800

Nonmetallic volume stabilizer mortar without contraction

Specialized chemical product, powdered, chlorides-free, Portland cement-based, with mineral aggregates and additives.

Complies with the Standard CRD C-621 and ASTM C-1107

USES

- Anchoring, fixing and base requiring grout with compression resistance higher than 800 kg/cm².
- Settle and level any type of machinery with little or none vibration.
- For installation of wind generators.
- To support plates for metallic structures.
- For backfilling without contraction below the metallic column footings and machinery bases.
- Higher backfilling in concrete columns in bearing girders or superstructures of bridges or auto or trial roads.
- Anchoring of precast and prestressed pieces.
- Foundation frames.
- Anchoring: bolts, bars, rods, antenna base, metallic structures and screws, in concrete or rock.
- For reparation of concrete structural elements.
- Extension of section in concrete elements.
- For reparation of concrete floors.
- For bind, in extensions of nonstructural casting.

ADVANTAGES

- It exceeds the cementitious grout norms CRD C-621 and ASTM C-1107, which require a compression resistance of 172 kg/cm² at 7 days and 350 kg/cm² at 28 days.
- High compression resistance at early ages, minimum 550 kg/cm² at 24 h and 640 kg/cm² at 72 h.
- High final resistance at 28 days, minimum 800kg/cm².
- High compression resistance at any ages.
- Excellent fluidity (average fluidity table 125 - 145%)
- Product without contraction.
- Volumetrically stable mortar, ensuring contact with surrounding surfaces.
- Chlorides-free, so it does not cause oxidation or corrosion problems to the metals it is in contact with, in salty or humid environments.
- Good adhesion in corrugate metallic elements, mortar and concrete.
- Durable and economic.
- It works faster than conventional concrete, reducing work costs.



APPLICATION INSTRUCTIONS

1. Surface preparation

The cement base or any other concrete element in contact with the grout must have its maximum resistance or have at least 21 days of being placed; the surface must have open porous and structurally sound; the loose parts must be removed with manual or mechanical equipment; the surface must be clean with pressure air; a perimetrical arc centering must be placed and sealed to avoid grout leakage; previously, the surface must be saturated with abundant water and kept wet until grout is poured out, the excess of water must be removed using pressure air or rags.

The metallic elements of the machinery bases, such as bolts, shifts, anchoring, screws, and others, must be free from oil, grease, poorly adhered paint or any other kind of substance that may avoid the adhesion of Festergrout NM 800.

In backfilling greater than 5 cm, it is recommended to place an assembly or add a clean and low-absorption mineral aggregate, like Fester Endumin, at a yield of 10 kg per 30-kg bag of Festergrout NM 800.



2. FestegROUT NM 800 preparation

Use a mixer unit with propeller for a 30 Kg with 4.0 L of clean and fresh water or a concrete mixer to mix 2 or 3 FestegROUT NM 800 bags with the water indicated per bag. The powder must be gently added to the water and mixed until you get a homogeneous mixture without clots.

Prepare only the amount of product you are able apply in 30 minutes.

3. Pouring Mixture Down

Before placing the grout, in narrow elements or elements that require significant volumes, it is recommended to use pencil vibrators, chains, shafts or corrugate rods as instruments to facilitate the optimum arrangement of the mortar.

Pour the product down continuously from just one side of the area, in order to avoid the air bubbles formation and a correct backfilling in all the required volume.

4. Grout curing

Any concrete or mortar requires curing to avoid early evaporation of water, and to reduce the cracking risk so that it develops its maximum resistance. Cure with curing membrane Fester MC 320 (see the Technical Data Sheet).

YIELD

15.1 L of mixture per 30-Kg bag.

IMPORTANT INFORMATION

For putting it into service, the minimum waiting time, depending on the environment temperature, is approximately 7 days after casting, unless the oldest age resistance is required.

The surface must be completely clean and water-saturated before pouring the grout down.

Do not expose the FestegROUT NM 800 bags to direct sunlight while waiting for being mixed.

The water for the grout mixture must be between 15-28 °C. In many cases, no bonding agent is required to improve grout adhesion to concrete; however, there are structural cases where it is required to ask Fester's Technical Department.

In backfilling thicker than 5 cm, it is recommended to place an assembly or add a mineral aggregate like Fester Endumin.

PRECAUTIONS

When you use this product, it is recommended to wear a mask and gloves against dust. For more information, consult the Safety Data Sheet.

Avoid skin or eye contact.

Keep out of reach of children.

PACKAGING

PRESENTATION	30 kg Bag
STORAGE	Keep it in a cool and dry place, protected from sunlight. Avoid contact with humidity.
EXPIRATION	9 months
MAXIMUM STOWAGE	30 kg bag, 8 pieces one on top of the other

ECOLOGICAL FEATURES

FestegROUT NM 800 contributes to increase the demand of construction materials and products extracted or manufactured in the region, reducing the environmental impact of transportation

FestegROUT NM 800 to improve the environment quality, by reducing the amount of pollutants with bad smell, irritating or harmful for worker and resident well-being. Its VOC content is 5.45 g/L.

Manufacture site: Carretera Panamericana Km. 312 Tramo Libre Celaya-Salamanca, Guanajuato CP. 36700.



PHYSICAL PROPERTIES					
PRUEBA		CRD/ ASTM METHOD		FESTER TYPICAL VALUES	
Maximum Expansion [%]		CRD-C-621 ASTM-C-1090	0.4	0.2	
Maximum Contraction [%]		CRD-C-621 ASTM-C-1090	0.0	0.0	
Maximum Final setting time [hours]		ASTM-C-191	8.0	4.5	
Fluidity [%]:		CRD-C-227 y ASTM-C-109	Minimum 125	125 a 145	
Compression Resistance of Medium Fluidity [kg / cm ²] Average fluidity	1 day	CRD-C-621 ASTM-C-1090	Minimum value	71.40	450 a 500
	3 days			173.30	520 a 580
	7 days			244.70	610 a 680
	28 days			346.70	720 a 800

Note: The data included were obtained in laboratory conditions, at 24 °C +/- 1 and with 50% of relative humidity. The compressive strength may vary +/- 10 %.



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