

Grout FX-20

Hydraulic lime injection grout

1- Product description

1.1 USE

Grout FX-20 is an injection grout based on natural hydraulic lime from St-Astier (France). For interior or exterior use, this grout is specially formulated for the consolidation or reinforcement of voids in massive masonry. Grout FX-20 presents a very high fluidity allowing to coat and pass through all the spaces in order to solidify the mass. Grout FX-20 can be applied by injection or gravity.

1.2 ADVANTAGES

- Composition similar to historic mortars.
- Excellent penetrating power.
- High fluidity, no bleeding and no segregation.
- High adhesion.

1.3 LIMITATIONS

Addition of additive and/or admixture of any nature such as set accelerators, retarders, antifreeze agents, waterproofing agents, polymers (latex) or else, is forbidden.

2- Installation

2.1 FIELD CONDITIONS

2.1.1 Make sure the temperature (surface, surrounding and material) is between 5°C (40°F) and 35°C (95°F), during the application and for the following 72 hours.

2.2 SURFACE PREPARATION

2.2.2 Make sure that all joints are tight before injecting to avoid leakage.

2.3 MIXING

2.3.1 Pour 8.8 litres (1.9 gallon) of potable water in a 20 litres pail.

2.3.2 Slowly add the dry ingredients while mixing at high speed with a drill equipped with a Jiffler type attachment.

2.3.3 Mix for a minimum of 5 minutes, until a homogeneous consistency is obtained.

Note: Never mix less than one bag.

2.4 APPLICATION

2.4.1 Using a compressor, apply a slight pressure (minimum 0.7 bars, 10 psi). According to the situation, Grout FX-20 can also be applied by gravity.

2.4.2 Periodically mix the product.

2.4.3 Start injection in the bottom of the structure until grout starts to come out of the next injection tube.

2.4.4 Plug bottom tube, clean immediately any leaking grout with water and continue the injection in the next tube.

2.5 CLEANING

Clean tools with water while mixture is not yet hardened. Once it is hard, only a mechanical cleaning will be efficient.

3- Packaging

This product is available in 20 kg (44 lb) bags. A pallet contains 63 bags.

4- Storage

4.1 INTERIOR STORAGE

Store in a cool, dry place. Avoid placing bags directly on the floor.

4.2 EXTERIOR STORAGE

Cover bags with a waterproof sheeting. Do not store directly on the ground.

4.3 SHELF LIFE

Shelf life is one year in original, unopened bags.

5- First aid

This product contains lime and may cause eye, skin and respiratory system irritation. Wear rubber gloves, safety glasses and approved dust mask. If swallowed, call a Poison Control centre or doctor immediately. Do not induce vomiting. In case of contact with eyes, rinse well with water for 15 minutes. In case of skin contact, rinse well with water. Keep out of reach of children. Consult the safety data sheet for more information.

6- Technical service

Contact Daubois for more information about application methods or conditions or to obtain the latest version of our technical documents.

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7- Warranty

Daubois guarantees that this product will perform as specified in this technical data sheet and suits the application for which it was intended. Nonetheless, Daubois does not offer any explicit or implicit warranty since it cannot control application methods and /or field conditions. Under this warranty, Daubois' responsibility is limited to either replace or refund the cost the product proved defective.

Technical data table

Characteristic		Results*
Compressive strength, ASTM C-109	7 days	4.0 MPa (580 psi)
	28 days	6.5 MPa (943 psi)
	90 days	9.5 MPa (1378 psi)
Water vapour transmission, ASTM E-96		30 perms
Water absorption, ASTM C-1403	24 hours	221 g/100 cm ²
Pull-off adhesion, CSA 23.2-6B	28 days	0.48 MPa (70 psi)
Shrinkage, ASTM C-596	91 days	0.27 %
Flow, ASTM C-939		15 to 20 seconds
Specific gravity		1700 kg/m ³ 106 lb/ft ³
Yield of one 20 kg (44 lb) bag		0.012 m ³ 0.42 ft ³
Color		Off white

* Results obtained in laboratory at 23°C