

Grout F-20

Hydraulic lime injection grout

1- Product description

1.1 USE

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

- It is forbidden to add any additives on field.

2- Installation

2.1 SURFACE PREPARATION

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

Technical data

| Characteristic | | Results* |
|---------------------------------|----------|--|
| Compressive strength ASTM C-109 | 7 days | 2.0 MPa (290 psi) |
| | 28 days | 3.5 MPa (508 psi) |
| | 90 days | 5.5 MPa (798 psi) |
| Vapour transmission ASTM E-96 | | 30 perms |
| Water absorption, ASTM C-1403 | 24 hours | 24.2 % |
| Pull-off adhesion CSA 23.2-6B | 28 days | 0,30 MPa (44 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

2.2 MIXING

- Pour 10.0 litres (2.2 gallons) of potable water in a 20 litres (4.4 gallons) pail.
- Slowly add the dry ingredients while mixing at high speed with a drill equipped with a Jiffler type attachment.
- Mix for a minimum of 5 minutes, until a homogeneous consistency is obtained.

2.3 APPLICATION

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

- Periodically mix the product.

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

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

2.4 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

- Interior storage: Store in a cool, dry place. Avoid placing bags directly on the floor.
- Exterior storage: Cover bags with a waterproof sheeting. Do not store directly on the floor.
- Shelf life is one year in original, unopened bags.

5- Grout B-1015

A modified version of Grout F-20 is also available for situations where leaking can be a major problem. Grout B-1015 has the same properties as Grout F-20 except for the flow. Grout B-1015 has a very good flow when it is moving or when it is mixed but when all movements are stopped, it thickens rapidly avoiding leaking problems. For more details, please contact Daubois.

6- 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.

7- 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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8- 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. Under this warranty, Daubois' responsibility is limited to either replace or refund the cost of the product proved defective.