Grout F-20

Hydraulic lime-based injection grout

1. PRODUCT DESCRIPTION

1.1. MAIN USE

Grout F-20 is a thixotropic injection grout made from natural hydraulic lime from St-Astier (France) and a mineral filler. This injection grout is specially formulated for consolidating or reinforcing voids in solid masonry. Grout F-20 has a very high fluidity, which allows it to infiltrate through empty spaces to consolidate the wall or foundation, thereby improving structural integrity. Grout F-20 is fluid and does not segregate or bleed excessively. It can be applied by injection and/or gravity.

1.2. ADVANTAGES

Composition compatible with historic mortars. Excellent penetrating power. High fluidity without bleeding or segregation. Very good adhesion. Excellent vapor transmission. Modifying the rheology of Grout F-20 allows it to be used as a thixotropic material, which provides high fluidity during mixing and injection. When Grout F-20 is at rest, the thixotropic phenomenon allows the material to act as a barrier, preventing significant grout leakage. The phenomenon is reversible, so to reduce the fluidity of the mixture again (increase fluidity), simply mix the fresh material again for a few seconds.

1.3. LIMITATIONS

1.4. Any modification to the composition of the mortar is prohibited and automatically voids its warranty.

1.5. The addition of additives and/or admixtures such as accelerators, retarders, antifreeze agents, waterproofing agents, polymers (latex) or other substances, regardless of their nature, is prohibited.

2. INSTALLATION

2.1. APPLICATION CONDITIONS

2.2. Ensure that the ambient temperature, surface temperature, and product temperature are between 5 °C (41 °F) and 35 °C (95 °F) during application and for a period of 72 hours thereafter.

2.3. Due to the high water content and the potentially large volumes of grout, it is recommended that you consult a professional to validate the conditions of use during cold periods. i.e. frost can create significant pressure on interior and exterior walls, causing them to deform.

2.4. SURFACE PREPARATION

Check that the joints are watertight to prevent leaks.

3. MIXING

3.1. Pour 10.0 liters (2.2 gallons) of potable water into a 20.0-liter (4.4 gallon) mixer.

3.2. Gradually add the dry ingredients while mixing at high speed with a drill equipped with a Jiffler-type agitator.

3.3. Mix for a minimum of 5 minutes. Ensure that the consistency is uniform.

Note: Never mix less than one bag and always mix entire bags.

4. APPLICATION

4.1. Apply low injection pressure (minimum 0.7 bar, 10 psi) using a pump equipped with a pressure gauge. Depending on the situation, Grout F-20 can also be applied by gravity.

Note: Mix the amount that can be applied within 1½ hours after mixing. Do not add water after this time. Discard unused material.

4.2. Stir the product periodically.

4.3. Inject starting at the bottom of the structure until the grout begins to come out of the upper injection tube.

4.4. Plug the lower injection tube, immediately clean up excess grout with water, and continue injection at the next point.

5. PROTECTION AND CURING

5.1. Protect from frost (temperature above 5 °C, 40 °F) and rain for 48 hours after application.

5.2. Protect finished work from mortar splashes using tarpaulins.

6. CLEANING

6.1. Clean equipment with water while the mixture is still soft. Once the mixture has hardened, only mechanical cleaning will be effective.

6.2. If grout gets on exposed surfaces, clean immediately with water and a stiff-bristled brush (do not use a wire brush).

6.3. Consult the component manufacturer and the cleaning product technical data sheets when more thorough cleaning is required. Avoid using high-pressure cleaning or abrasive techniques such as sandblasting, glass beads, or other methods. Always perform a sample test.

7. PACKAGING

This product is packaged in 20 kg (44 lb) paper bags. One pallet contains 63 bags.

8. STORAGE

8.1. INDOOR STORAGE

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

8.2. OUTDOOR STORAGE

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

8.3. SHELF LIFE

The shelf life is 12 months in unopened and well-protected bags.

9. FIRST AID

WEAR WATERPROOF GLOVES, such as nitrile, eye protection, protective clothing, and rubber boots. Do not breathe dust or swallow it. Wear a NIOSH-approved respirator (mask) such as N95 in poorly ventilated areas, during prolonged or repeated use, or when maximum exposure limits may be exceeded. Do not eat, drink, or smoke when using this product. Before handling, read and understand the safety information on this label and on the Material Safety Data Sheet (MSDS) available online at www.daubois.com.

IF EXPOSED: Wash contaminated body and clothing thoroughly and immediately. In case of eye contact: rinse cautiously with water for several minutes; remove contact lenses, if present and easy to do; continue rinsing. If inhaled: move the person to fresh air and keep them comfortable so they can breathe. If swallowed: rinse mouth; do NOT induce vomiting. If skin burns, irritation, or rash occurs: get medical attention immediately. Get medical attention right away if symptoms are severe or persistent.

10. TECHNICAL SERVICE

Contact Les Produits Daubois Inc. for more information on application methods or conditions, as well as to obtain the latest version of technical documents.

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11. WARRANTY

Get the applicable LIMITED WARRANTY on

https://www.daubois.com/fr/produit-garantie.php

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TECHNICAL DATA TABLE

Characteristic	Expiration	Results[1]
Compressive strength, ASTM C-109	7 days	2.0 MPa (290 psi)
	28 days	3.5 MPa (508 psi)
Average value [3]	90 days	4.5 MPa (653 psi)
Vapor transmission, ASTM E-96	—	30 perms
Water absorption, ASTM C-1403	24 hours	242 g/100 cm^2
Direct tensile adhesion, concrete block, CSA 23.2-6B	28 days	0.30 MPa (44 psi)
Shrinkage, ASTM C-596	91 days	0.27
Flow, ASTM C-939	—	15-20 seconds
Density	—	1700 kg/m^3 (106 lb/ft^3)
Yield from a 20 kg (44 lb) bag	—	0.012 m^3 (0.42 ft^3)
Color	—	Off-white

[1] Results obtained in the laboratory at 23°C, 50% RH, for a standard sample mixed with the amount of water specified in the technical data sheet. These results may vary from one sample to another and are indicative of the grout's performance. They cannot be used to accept or reject the use of the product.