

Blocfiller

Concrete masonry units grout

1- Product description

1.1 USE

• Blocfiller is a grout based on Portland cement, fine sand and specialized additives allowing rheology control, good adhesion, avoiding segregation and giving expansive properties in fluid phase.

• It is used as a reinforcement and consolidation grout to fill the voids in masonry walls.

1.2 ADVANTAGES

- Excellent adhesion
- No shrinkage
- Easy to apply
- No bleeding
- Good freeze/thaw resistance

1.3 LIMITATIONS

- Do not use to lay down elements.
- 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 48 hours.
- Masonry wall should have cured for a minimum of 12 hours before starting to fill with grout.

2.2 MIXING

• The freshly prepared grout should be used within the next 1 ½ hour following the mixing. Any unused grout should be discarded.

• Mixing in small quantity (1 bag): Pour the requested amount of potable water in a clean container (see technical data table).

• Slowly add dry ingredients while mixing with a drill equipped with a mixer attachment such as a Jiffiler.

• Mix for a minimum of 5 minutes without exceeding 10 minutes. Adjust consistency by adding water without excess.

Note: Do not mix less than 1 bag.

• Mixing in large quantities: Use a mortar mixer of appropriate size (mixer should be 3/4 full). Start mixer. Introduce the requested amount of potable water (see technical data table).

• Slowly add dry ingredients.

• Mix for a minimum of 5 minutes without exceeding 10 minutes. Adjust consistency by adding water without excess.

Note: It is strongly recommended to use a slump cone following ASTM C-143 standard to rapidly verify mix consistency and avoid using excess water.

2.3 APPLICATION

• Blocfiller can be applied by gravity or pump into place.

• Follow CSA A-371 standard section 5.9 for installation procedures.

2.4 PROTECTION AND CURING

• Protect from freezing (temperature over 5°C, 40°F) and from rain for the first 48 hours.

• Protect finished work with plastic sheeting to avoid mortar spots.

2.5 CLEANING

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

• During application, remove mortar spots with jute.

• Consult the element manufacturer or a cleaning specialist before any cleaning step is initiated. It is important to preserve mortar's integrity.

3- Packaging

• This product is available in 30 kg (66 lb) paper bags and in bulk bags.

• A pallet of 30 kg bags 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.

Technical data

Characteristic	Results*	15 MPa	20 MPa	25 MPa
Mixing water **		6 L (1.3 gal)	5.4 L (1.2 gal)	4.8 L (1.1 gal)
Compressive strength MPa (psi) ASTM C-109	28 days	15 to 18 (2175 to 2600)	20 to 23 (2900 to 3335)	25 to 28 (3480 to 4060)
Pull-off adhesion, MPa (psi) CSA 23.2-6B	28 days	0.7 (101)	1.8 (261)	1.2 (174)
Freeze/thaw resistance ASTM C-666M		150 cycles	150 cycles	150 cycles
Flexural strength MPa (psi) ASTM C-348	28 days	4.0 (580)	5.0 (725)	5.5 (800)
Yield of a 30 kg (66 lb) bag m ³ (pi ³)		0.018 (0.64)	0.018 (0.64)	0.018 (0.64)
Approximate number of 190*190*390 mm (8*8*16 in) blocks filled at 60% per 30 kg bag		3 blocks or 6 cavities	3 blocks or 6 cavities	3 blocks or 6 cavities
Approximate number of 190*190*390 mm (10*8*16 in) blocks filled at 60% per 30 kg bag		2.4 blocks or 4.8 cavities	2.4 blocks or 4.8 cavities	2.4 blocks or 4.8 cavities
Color		Grey	Grey	Grey

* Results obtained in laboratory at 23°C

** Quantity allowing a slump of 250 to 275 mm (10 to 11 in) according to ASTM C-143

5- First aid

This product contains cement 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.

Phone: 1-800-561-2664
(514) 328-1253
Fax: (514) 328-7694
Daubois inc
6155, boul. des Grandes Prairies
Saint-Léonard, Qc H1P 1A5
Canada
<http://www.daubois.com>

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