

Bloc mix

Block laying mortar

1- Product description

1.1 USE

• Bloc mix is a mortar based on well-graded sand and cement principally used for the installation of block walls.

1.2 ADVANTAGES

- Calibrated mortar
- Excellent workability
- High adhesion
- Resist to freeze/thaw cycles

1.3 LIMITATIONS

• It is forbidden to add any additives on field (colorants¹ excepted).

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.

2.2 MIXING

• Mixing in small quantity (1 bag): Pour 4.0 litres (0.9 gallon) of potable water in a clean container.

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

• Mix for 3 to 5 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 water; 4.0 litres (0.9 gallon) per 30 kg bag.

• Slowly add dry ingredients.

• Mix for 3 to 5 minutes. Adjust consistency by adding water without excess.

2.3 APPLICATION

- Spread a uniform coat of mortar.
- Apply mortar on one end of the element and position it.
- Using a level, set it in the bedding mortar with small, sharp taps. Fill all the joints.
- Do not realign elements once they have been in contact with mortar.

• Mortar should be used within 1 ½ hour following mixing if temperature is higher or equal to 25°C (77°F). If temperature is lower than 25°C (77°F), use within 2 ½ hours. Discard unused mortar.

2.4 FINISHING

• All mortar joints must be finished using a metal or plexiglas tool to provide the required look as well as weather resistance.

• Finishing must be done just before the mortar loses its plasticity, when finger pressure barely leaves any traces. It is impossible to set a specific time, it is

necessary to rely on the mason's judgment.

2.5 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.

2.6 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.

¹ The quality and quantity of colorant used should respect ASTM C-979 standard

Technical data

Characteristic	Results*	15 MPa	20 MPa	25 MPa
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)
Water vapor transmission, ASTM E-96		12	9	11
Water absorption, %, ASTM C-1403	24 hours	6.2	3.7	4.0
Pull-off adhesion, MPa (psi) CSA 23.2-6B	28 days	1.16 (168)	1.31 (190)	1.64 (238)
Shrinkage, %, ASTM C-596	28 days	0.17	0.13	0.14
Freeze/thaw resistance ASTM C-666M		> 100 cycles	> 150 cycles	> 150 cycles
Flexural strength MPa (psi) ASTM C-348	28 days	4.5 (650)	5.3 (770)	5.4 (780)
Specific gravity, kg/m ³ (lb/pi ³)		1700 (106)	1740 (109)	1740 (109)
Yield of a 30 kg (66 lb) bag m ³ (pi ³)		0.017 (0.60)	0.017 (0.60)	0.017 (0.60)
Approximate number of 190*190*390 mm (8*8*16 in) blocks layed per bag		12	12	12
Color		Grey	Grey	Grey

* Results obtained in laboratory at 23°C

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.

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

8- Specification guide

A specification guide has been prepared respecting the format of Construction Specifications Canada (CSC). This guide is a document that can be used as a starting point for the preparation of specifications. This guide contains several notes to the user describing how to prescribe Bétomix Plus with precision, in order to assure quality of work.