

Bétomix Plus type S

1- Product description

1.1 USE

• Bétomix Plus is a mortar based on well-graded sand, type S hydrated lime, portland cement and colorants (optional).

• Bétomix Plus type S was developed to meet the properties described in table 5 of CSA A179-94 standard.

• Bétomix Plus type S is principally used for the installation or jointing of masonry elements for loadbearing and/or non-loadbearing walls, above and/or below ground level.

• For interior and exterior use, it is ideal for the installation of brick (clay, concrete or calcium silicate), concrete blocks, stones, granite or sandstone.

1.2 ADVANTAGES

- Excellent adhesion
- High water vapor transmission
- Very good waterproofness and water retention
- Low shrinkage
- Self-healing properties
- Excellent workability
- High flexibility

1.3 LIMITATIONS

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

Technical data

Characteristic		Results*
Compressive strength, MPa (psi) ASTM C-109	7 days	7.5 to 9 (1088 to 1305)
	28 days	12.5 to 14 (1812 to 2030)
Vapour transmission, ASTM E-96		17 perms
Pull-off adhesion on clay brick CSA 23.2-6B	28 days	1.10 MPa (160 psi)
Shrinkage, ASTM C-596	91 days	0,13 %
Freeze/thaw resistance ASTM C-666 Modified		50 cycles
Air content, ASTM C-185		12 to 18%
Flexural strength, ASTM C-348	7 days	3.7 MPa (537 psi)
	28 days	4.7 MPa (682 psi)
Specific gravity		1580 kg/m ³ 100 lb/ft ³
Yield of one 30 kg (66 lb) bag		0.019 m ³ 0.67 ft ³
Approximate number of bricks laid by 30 kg bags		50 bricks of 6.5 bricks/ft ²
Color **		Grey or white

* Results obtained in laboratory at 23°C

** Custom colored as requested

• If there is any doubt on the compatibility of Bétomix Plus with the elements used in a specific work, consult our technical representatives and/or our technical service.

• It is recommended to verify the adhesion between Bétomix Plus and the element used before starting any work.

This precaution is necessary due to the diversity of masonry elements on the market.

• Color variation may be observed. This can be caused by the time allowed before finishing is done, by temperature and humidity changes, lack of protection, etc.

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

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.

- Refer to the technical data sheet of the element for special installation requirements. (ex: should it be humidified?)

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.

- Let the product rest for 2 to 5 minutes and then remix for 1 additional minute.

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.

- Let the product rest for 2 to 5 minutes and then remix for 1 additional minute.

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.

- In hot weather, protect from sun and wind to avoid rapid water evaporation of mortar.

- 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.

5- First aid

This product contains lime and portland 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.