

Bomix® 1-1-6

Lime Mortar

1. PRODUCT DESCRIPTION

1.1. USE

BOMIX® 1-1-6 type N is a setting mortar meeting the specifications of the CSA A179 standard, based on portland cement, type S hydrated lime, an air-entraining agent and sand. For interior and exterior use, BOMIX® 1-1-6 type N is mainly used for brickwork, architectural blocks or stone.

1.2. LIMITATIONS / RECOMMANDATION

- 1.2.1. BOMIX® 1-1-6 must be used exclusively for vertical surfaces.
- 1.2.2. BOMIX® 1-1-6 must be used exclusively for the installation of non-load-bearing wall elements above ground level.
- 1.2.3. Any modification made to the composition of the mortar is prohibited and automatically cancels its guarantee.
- 1.2.4. The addition of additives and/or adjuvants, regardless of their nature, such as setting accelerators, setting retarders, antifreeze, anti-graffiti, waterproofing agents, polymers (latex) or other, is prohibited.
- 1.2.5. Due to the variable absorption rates from one type of element to another, it is recommended to carry out compatibility tests with the mortar, mainly with regard to the minimum flexural adhesion required by the CSA standard. A179-14.
- 1.2.6. Ensure that the ambient temperature, that of the elements and of the product are between 5 °C (41 °F) and between 35 °C (95 °F), during the application as well as after, at least 72 hours, according to the latter.

2. INSTALLATION

2.1. SURFACE PREPARATION

Refer to the technical data sheet of the manufacturer of the element laid in order to verify the specifications for its installation of the brick.

3. MIXING

- 3.1. Use 4.5 liters (1.0 gallon) of potable water per 30 kg (66 lb) bag. Start the mortar mixer. Introduce the required amount of water.
- 3.2. Add BOMIX® 1-1-6. Mix for 3 to 5 minutes until a homogeneous mixture is obtained. If necessary, add water to obtain the desired plasticity.
- 3.3. Let the mixture stand for 2 to 5 minutes then mix again for 1 minute.

4. APPLICATION

- 4.1. Spread the fresh mortar in an even layer. Apply mortar to the end of the element and set it in place. Using a level or line, tap the unit level in the mortar bed. Fill all joints. Do not realign masonry units once in contact with mortar.
- 4.2. Note: Mortar should be applied within 1 hour of mixing if ambient temperature is 25 °C (77 °F) or above, and within 2 hours if temperature is below 25 °C (77 °F). Mortar not used after this period of time should be discarded.

5. FINISHING

- 5.1. In order to improve their appearance and maximize their weather resistance, all joints must be finished (compacted and smoothed) using a joint iron (metal, plexiglass, etc.).



- 5.2. Smoothing must always be carried out by compaction as soon as the mortar loses its plasticity, that is to say, as soon as the fingerprint remains marked there.
- 5.3. It is impossible to set a precise time for finishing the joint, you have to rely here on the judgment of the mason.

6. PROTECTION AND CURING

6.1. PRECAUTIONS

Protect from rain, sun and wind for the first 72 hours.

6.2. COLD WEATHER CONDITION

Protect from frost above 5 °C (41 °F) and from rain for the first 72 hours after installation.

6.3. HOT WEATHER CONDITION

Protect from sun and wind to prevent the mortar from drying too quickly.

7. CLEANING

- 7.1. Clean equipment with water while the mixture is not yet hardened. Once the mixture has hardened, only mechanical cleaning will be effective.
- 7.2. Throughout the work, carefully remove mortar splashes and stains using jute and/or a wooden pallet.
- 7.3. Consult the element manufacturer and cleaning product data sheets when more thorough cleaning is required. Ideally, the masonry mortar should undergo a minimum curing of 28 days before carrying out a washing operation. However, it is recommended to consult the recommendations of the manufacturer of the cleaning products in order to validate the compatibility of the product with the masonry elements. Avoid using high pressure cleaning or abrasive techniques, such as sandblasting, glass beads or others. Always perform a convenience test and wait 3 days before proceeding.

8. PACKAGING

This product is packaged in a 30 kg (66 lb) paper bag. A pallet of 30 kg (66 lb) bags contains 63 bags.

9. STORAGE

9.1. INDOOR STORAGE

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

9.2. EXTERIOR STORAGE

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

9.3. LIFETIME

Storage time is 12 months in unopened, well-protected bags. Do not use a product that has agglomerations of hardened materials.

10. FIRST AID

This product contains portland cement and may cause eye, skin and respiratory tract irritation. Wear rubber gloves, safety glasses and approved dust mask.

If swallowed, call a poison control center or doctor immediately. Do not induce vomiting. In case of eye contact, flush with water for 15 minutes. In case of skin contact, rinse well with water. Keep out of the reach of children. Consult MSDS for details.

11. TECHNICAL SERVICES

Contact BOMIX® for further information on application methods or conditions as well as to obtain the most recent version of the technical documents.

Tel: 1-800-561-2664, (514) 328-1253

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12. WARRANTY

You can obtain the terms of the applicable LIMITED WARRANTY at

<https://www.bomix.ca/en/product-warranty.php>

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13. CAUTION

It is possible to observe color variations on the final result. These variations are mainly caused by various implementation situations such as:

- Delay before finishing (smoothing of joints).
- Variable humidity levels of the elements.
- Lack of protection during implementation and work stoppages or interruptions

TABLE 1 – TYPICAL RESULTS¹

Characteristics	Standards	Term	Unit	Results
Spreading	ASTM C 230 ²		[mm (po)]	110±5
Air content	ASTM C 185 ³		[%]	8-11 ≤18
Compressive strength	ASTM C 109 ⁴	7 days	[MPa (psi)]	3.0 (435)
		28 days		5.0 (725)
Yield	-	-	[m ³ / 30 kg (pi ³ / 66 lb)]	0.016 (0.6)
Number of bricks / 30 kg bag	-	-	[Bricks / bag]	45 à 50

1. Results obtained in the laboratory, at 23°C, ripening > 90% R.H., for a standard sample, mixed to obtain a spread of 110 ± 5%.
2. BOMIX 1-1-6 prepared in the laboratory and mixed to obtain a spread of 110 ± 5% which meets the specifications required by the CSA A179-14 standard for a type N mortar.
3. Average value obtained during quality control analyses. The results may differ from this value but still comply with the CSA A179-14 standard, as stipulated in 1.
4. BOMIX 1-1-6 is formulated to meet the specifications prescribed in table 6, of the CSA A179-14 standard, for a type N mortar.