

## Mortar mix

Type N laying mortar

### 1. PRODUCT DESCRIPTION

- 1.1. Bomix® type N mortar mix is a setting mortar meeting the specifications of CSA A179-14, based on masonry cement and sand.

### 2. USE

- 2.1. Bomix® Mortar Mix Type N is mainly used for brick, architectural block or stone works.
- 2.2. Bomix® Mortar Mix can be used indoors and outdoors

### 3. LIMITATIONS / RECOMMANDATIONS

- 3.1. Bomix® mortar mix must be used exclusively for vertical surfaces.
- 3.2. Bomix® mortar mix must be used exclusively for installing non-load-bearing wall elements above ground level.
- 3.3. Any modification made to the composition of the mortar is prohibited and automatically voids its warranty.
- 3.4. 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.
- 3.5. 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 A179-14 standard.
- 3.6. 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 afterwards, at least 72 hours, following the latter.

### 4. PACKAGING

- 4.1. This product is packaged in 30 kg (66 lb) paper bags.

### 5. YIELD

- 5.1. A 30 kg (66 lb) bag yields approximately 18 litres (0.64 cu. ft.).

### 6. TECHNICAL DATA

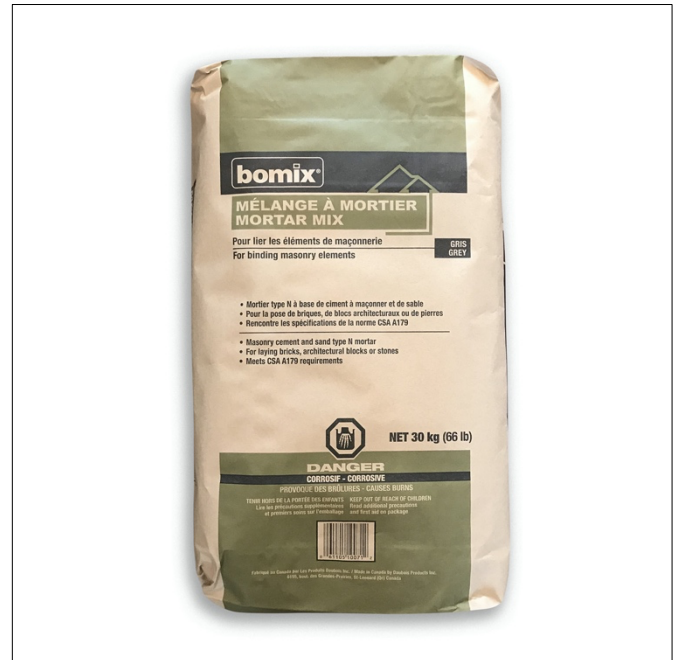
#### 6.1. APPLICABLE STANDARDS

- 6.1.1. The portland cement used meets the specifications of CSA A179-14.

### 7. PROCEDURES

#### 7.1. SURFACE PREPARATION

- 7.1.1. Refer to the technical data sheet of the manufacturer of the element installed in order to check the specifications for its installation of the brick.



### 8. MIXING

- 8.1. Use 4.5 L of potable water per 30 kg (66 lb) bag. Start the mortar mixer. Add the required amount of water.
- 8.2. Add the Bomix® Mortar Mix to the mixer. Mix for 3 to 5 minutes until a homogeneous mixture is obtained. If necessary, add water to obtain the desired plasticity.
- 8.3. Let the mixture rest for 2 to 5 minutes then mix again for 1 minute.

### 9. APPLICATION

- 9.1. Spread fresh mortar in an even layer. Apply mortar to the end of the unit and set it in place. Using a level or a line, level the unit in the mortar bed with short, sharp strokes. Fill all joints. Do not realign masonry units once they are in contact with the mortar.

*Note: Mortar must be applied within 1 hour of mixing if the ambient temperature is 25°C (77°F) or higher, and within 2 hours if the temperature is below 25°C (77°F). Mortar not used after this time must be discarded.*

### 10. FINISHING

- 10.1. In order to improve their appearance and maximize their resistance to bad weather, all joints must be finished (compacted and smoothed) using a jointing iron (metal, plexiglass, etc.).
- 10.2. 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 on it.
- 10.3. It is impossible to set a precise time for finishing the joint; here, one must rely on the mason's judgment.

## 11. PROTECTION AND CURING

### 11.1. PRECAUTION

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

### 11.2. COLD WEATHER CONDITIONS

11.2.1. Protect from frost below 5 °C (41 °F) and from rain during the first 72 hours after installation.

### 11.3. HOT WEATHER CONDITIONS

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

## 12. CLEANING

12.1. Clean equipment with water while the mixture is still in the process of hardening. Once the mixture has hardened, only mechanical cleaning will be effective.

12.2. Throughout the work, carefully remove mortar splashes and stains using burlap and/or a wooden pallet.

12.3. Consult the manufacturer of the element as well as the technical data sheets of the cleaning products when a more thorough cleaning is necessary. Ideally, the masonry mortar must undergo a minimum of 28 days of curing 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 its compatibility with the masonry elements. Avoid using high-pressure cleaning or abrasive techniques, such as sandblasting, glass beads or others. Always carry out a suitability test and wait 3 days before proceeding.

## 13. STORAGE

### 13.1. INDOOR STORAGE

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

### 13.2. EXTERIOR STORAGE

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

### 13.3. LIFETIME

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

## 14. FIRST AID

14.1. **IMPORTANT: Read the following carefully before using the product. WEAR IMPERMEABLE GLOVES, such as nitrile, eye protection and rubber boots. DANGER – CORROSIVE: CAUSES SEVERE BURNS AND SERIOUS EYE DAMAGE.** Do not rely on pain to detect cement burns. Portland cement may cause dermatitis or sensitization. Do not mix with other chemicals including acids and cleaners. Do not breathe or swallow dust. Do not allow product to contact eyes, skin or clothing.

14.2. Repeated and chronic inhalation of dust can cause lung damage and even cancer. Handle with care. Wash contaminated clothing and body immediately and thoroughly. Use only in an area with good ventilation. Wear a CSA approved respirator (mask), such as the N95, when used in poorly ventilated areas, for prolonged or repeated use, or when maximum exposure limits may be exceeded.

14.3. **FIRST AID : Contains silica sand and portland or masonry or mortar cement, and may contain hydrated lime or additional cementitious materials such as fly ash.** If swallowed: Call a poison control centre or doctor immediately; rinse mouth and do not induce vomiting. If in eyes: Rinse cautiously with water; remove contact lenses, if present and easy to do; continue rinsing for 5 minutes. If on skin: Wash immediately. If on clothing: Remove clothing immediately and wash. If inhaled: Remove exposed person to fresh air. If you experience a burn, rash or skin irritation; get medical advice immediately. Get medical advice immediately if symptoms are severe or persist. The Safety Data Sheet is available online at [www.bomix.ca](http://www.bomix.ca). In case of emergency: 1-800-535-5053.

**KEEP OUT OF REACH OF CHILDREN.**

## 15. TECHNICAL SERVICES

15.1. 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

Fax: (514) 328-7694

Les Produits Daubois Inc.

6155, boul. des Grandes-Prairies, Saint-Leonard, Qc H1P 1A5, Canada

<http://www.bomix.ca>

## 16. WARRANTY

16.1. You can obtain the terms of the applicable LIMITED WARRANTY at <https://www.bomix.ca/en/product-warranty.php> Or send a written request to Les Produits Daubois Inc., Five Concourse Parkway, Atlanta, GA 30328, USA . ©Quikrete Canada Holdings, Limited. Manufactured by or under the authority of Les Produits Daubois Inc. ©2024 Quikrete International, Inc.

## 17. WARNING

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

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

**Table 1: Typical results obtained<sup>1</sup>**

Characteristics	Standards	Term	Unit	Result Mortar BOMIX	Standard specifications CSA A179-14
Spreading	ASTM C230 <sup>2</sup>	-	[%]	110±5	110±5
Air content	ASTM C185	-	[%]	8-11	≤18
Compressive strength	ASTM C 39	7 days	[MPa (Psi)]	3.5 (510)	3.0 (435)
		28 days	[MPa (Psi)]	6.5 (940)	5.0 (725)
Yield for 1 bag of 30 kg (66lb)	-	-	[m <sup>3</sup> (ft <sup>3</sup> )]	0.018 (0.64)	-

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