Permaglass

White mortar for glass block installation



1. MAIN USE

1.1. Permaglass Bomix® is a mixture based on portland cement, lime, and graded sand, specially formulated for installing glass blocks.

1.2. Suitable for both indoor and outdoor use, it contains a water-repellent agent that enhances its waterproofing properties.

1.3. Permaglass Bomix® has a consistency that allows it to support the weight of a glass block while still in a plastic state.

2. INSTALLATION

2.1. **SURFACE PREPARATION**

2.1.1. Ensure that the ambient temperature, as well as the temperatures of the surfaces and products, are between 5 °C (40 °F) and 35 °C (95 °F) during application and for a period of 48 hours following application.

2.2. **MIXING**

2.3. MIXING IN SMALL QUANTITIES

2.3.1. Pour 3.0 liters (0.8 gallons) of potable water into a suitable container.

2.3.2. Gradually add the dry ingredients (1 bag of 22.7 kg) while mixing at low speed with a drill equipped with a paint mixer attachment.

2.3.3. Mix for at least 3 minutes until a homogeneous mixture is obtained. If necessary, add water to achieve the desired workability.

2.3.4. Do not prepare a mixture that is too waterly, as the glass block does not absorb water like a brick.

Note: It is not recommended to mix less than one bag, as the components may separate during transport.

2.4. LARGE-QUANTITY MIXING

2.4.1. Use a mortar mixer with an appropriate capacity (the mixer must be filled to at least ¾ capacity). Start the mixer. Pour in the required amount of potable water, which is 3.0 liters (0.8 gallons) of water per 22.7 kg (50 lb) bag.

2.4.2. Gradually add the dry ingredients. If necessary, add water to achieve the desired consistency.

2.4.3. Mix for at least 3 minutes until a homogeneous mixture is obtained. If necessary, add water to achieve the desired workability.

2.4.4. Do not prepare a mixture that is too watery, as the glass block does not absorb water like a brick.

3. APPLICATION

3.1. Spread the mortar in an even layer. Apply mortar to the end of the block and set it in place.

3.2. Set the block into the mortar bed with short, firm taps, aligning it using a level or a string line. Do not realign the blocks after this step.

3.3. Discard any material that has been mixed for more than 1 1/2 hours; do not add water to make it workable.

4. FINISHING

4.1. To improve their appearance and maximize their weather resistance, all joints must be finished with the appropriate tools (metal, Plexiglas, etc.).

4.2. Finishing must be done as soon as the mortar loses its plasticity—that is, as soon as a finger impression remains visible. It is impossible to specify a precise time for finishing the joint; you must rely on your own judgment.

5. PROTECTION AND CURE

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

6. CLEANING

6.1. Clean equipment, tools, the mixer, and containers with water while the mixture is still soft. Once the mixture has hardened, only mechanical cleaning will be effective.

6.2. Throughout the work, carefully remove mortar splatters and stains using burlap.

7. STORAGE

7.1. INDOOR STORAGE: Store in a cool, dry place. Avoid placing bags directly on the floor.

7.2. OUTDOOR STORAGE: Cover the bags with a waterproof sheet. Do not store directly on the ground.

7.3. SHELF LIFE: The storage life is 12 months in unopened and well-protected bags.

8. PACKAGING

8.1. This product is available in 30 kg (66 lb) bags.

9. FIRST AID

9.1. THIS PRODUCT CONTAINS LIME AND PORTLAND CEMENT; IT MAY CAUSE IRRITATION TO THE EYES, SKIN, AND RESPIRATORY TRACT.

9.2. WEAR WATERPROOF GLOVES, such as nitrile, eye protection, protective clothing, and rubber boots. Do not inhale or swallow the dust. Wear a NIOSH-approved respirator (mask), such as an N95, in poorly ventilated areas, during prolonged or repeated use, or when maximum exposure limits may be exceeded. Do not eat, drink, or smoke while using this product. Before handling, read and understand the safety information on this label and in the Safety Data Sheet (SDS) available online at www.bomix.ca.

9.3. IF EXPOSED: Wash the body and contaminated clothing thoroughly and immediately. In case of eye contact: rinse carefully with water for several minutes; remove contact lenses, if present, if possible; continue rinsing. If swallowed, immediately call a poison control center or a doctor. DO NOT induce vomiting; give the victim water if they are conscious. In case of eye contact, rinse with water for 15 minutes. In case of skin contact, rinse thoroughly with water. Keep out of the reach of children.

10. TECHNICAL SERVICES

10.1. Contact BOMIX®for more information on application methods or conditions, as well as to obtain the latest version of the technical documents.

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

Fax: (514) 328-7694

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Saint-Léonard, QC H1P 1A5

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10.2. http://www.bomix.ca

11. WARRANTY

11.1. You can obtain the terms of the applicable LIMITED WARRANTY at https://www.bomix.ca/fr/produit-garantie.php or by sending 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. ©2022 Quikrete International, Inc.

TABLE 1: TYPICAL RESULTS OBTAINED[1]

Specifications	Standard	Maturity	Unit	Results
Compressive Strength	ASTM C 109	7 days 28 days	[MPa (psi)] [MPa (psi)]	9.7 (1,405) 12.5 (1,810)
Initial set time	ASTM C 807	-	hour	2 1/2
Final setting time	ASTM C 807	-	hour	3 1/2
Density	ASTM C 185	-	[kg/m^3 (lb/ft^3)]	1.74 (108)
Yield per 22.7 kg (50 lb) bag	-	-	[m^3 (ft^3)]	0.013 (0.45)
Color	-	-	-	White

1-Results obtained in the laboratory at 23 °C, curing > 90% RH, for a standard sample.