

## RELATED MORTARS - DIVISION 04

### MASONBOND 400

MasonBond 400 is a pre-blended, pre-packaged mortar specifically designed for use with cultured bricks and stones, as well as for granite pavers and slab installation. This mortar is a blend of cementitious material, polymer, masonry sand and other carefully selected components. It is grey in colour.

#### FEATURES & BENEFITS

- High bond strength.
- Superior workability.
- Increased compressive strength and long-term durability.
- Pre-blended, reducing mixing time on jobsite and increasing productivity.
- Excellent resistance to de-icing salts.
- Contains less than 0.1 g/L of volatile organic compounds (VOC), less water (SCAQMD Rule #1168).
- All KING products are manufactured using ISO 9001:2008 Certified Processes.

#### USES

- For bonding brick and cultured stone to a variety of vertical surfaces.
- For bedding granite pavers and slabs on horizontal surfaces.
- Can be used in both interior and exterior applications.

#### PROCEDURES

##### Mixing:

MasonBond 400 should be mixed with 4.5 litres (1.2 US gallon) of potable water per 30 kg (66 lb.) bag, in a clean paddle mixer. Add 4.0 litres (1.0 US gallon) of water into the mixer along with 30 kg (66 lb.) of MasonBond 400 and mix for 3 to 5 minutes. Add only enough of remaining water to bring mix to desired consistency. Clean the mixer immediately after use.

#### TECHNICAL DATA

The following data is representative of typical values achievable under laboratory conditions according to CSA A-179-04. Results in the field may vary.

#### COMPRESSIVE STRENGTH

24 Hr	8 MPa (1160 psi)
7 Day	15 MPa (2175 psi)
28 Day	20 MPa (2900 psi)

#### VAPOR TRANSMISSION

ASTM E 96	4.5 Perms – Metric
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#### FLOW

75 %

#### AIR CONTENT

18 % Maximum

#### DIRECT TENSION TESTS

##### CSA A23.2-6B

Support	Average Strength MPa	PSI
Plywood	< 0.02	< 2.90
Plywood + Metallic Mesh	< 0.19	< 27.56
Cement Board + Metallic Mesh	< 1.10	< 159.54
Cement Board + Metallic Mesh	< 1.30	< 188.55
Concrete Block	< 1.26	< 182.75

#### FREEZE-THAW, SALT SCALING RESISTANCE

##### CSA A231.2

Number of cycles	Loss Mass
50	< 50 g/m <sup>2</sup> (Durability criteria: < 500 g/m <sup>2</sup> )

#### OPTIMUM PERFORMANCE

- MasonBond 400 should not be used as a bedding mortar for conventional masonry work. For applications requiring conventional Type N Mortar, please refer to KING 1-1-6.
- The substrate and mortar temperature should be between 5 and 38°C (40 and 100°F) and maintained in this range for 72 hours after mortar application.
- Never use on-site admixtures to modify setting time, workability, or any other properties of plastic or hardened mortar.
- Use only the recommended volume of water to achieve the desired plastic and hardened mortar properties.

#### YIELD

- 30 kg (66 lb.) bag contains approximately 0.018 m<sup>3</sup> (0.65 ft<sup>3</sup>) of fresh mortar.

#### PACKAGING

MasonBond 400 is packaged in 30 kg (66 lb.) triple lined bags and poly wrapped on wooden pallets.

#### STORAGE AND SHELF LIFE

Material should be stored in a dry covered area protected from the elements. Unopened bags have a shelf life of 12 months.

#### SAFETY PROCEDURES

MasonBond 400 contains Portland cement and lime. Normal safety-wear such as rubber gloves, dust mask and safety glasses used to handle conventional cement based products should be worn. Material Safety Data Sheets are available upon request.

Note: The contents of this data sheet are updated regularly. To ensure that you have the most recent version, please visit our website at the following address: [www.king-masonry.com](http://www.king-masonry.com)

This product is designed to meet the performance specifications outlined in this product data sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties,

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representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade.

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