

**MODIFIED POLYMER MORTAR  
DIVISION 04**

# MASONBOND 400

**All KING products are manufactured using  
ISO 9001:2008 Certified Processes**

## **FEATURES & BENEFITS**

- » High bond strength
- » Superior workability
- » High compressive strength and long-term durability
- » Pre-blended, which reduces mixing time on-site and increasing the productivity
- » Excellent resistance to de-icing salts
- » Contains less than 0.1 g/L (0.013 oz/gal) of volatile organic compounds (VOCs), less water (SCAQMD Rule #1168)

## **USES**

- » For bonding brick and cultured stone to a variety of vertical surfaces
- » For bedding granite paver and slabs on horizontal surfaces
- » For installing steps in landscaping
- » Can be used indoors and outdoors

MasonBond 400 is a premixed and pre-packaged mortar specially designed to be used with cultured bricks and stones, as well as for granite pavers and slab installation. This mortar is a blend of cementitious materials, polymer, sand with controlled grain size, and other carefully selected additives. This product is grey in colour.

## **EXECUTION**

- The application of the mortar must comply with the requirements of Section 6,7 and 10.5.1 of CSA A371-14
- Never spread mortar on frozen surfaces

## **MIXING**

Mix MasonBond 400 with a maximum of 4.5 L (1.2 US gallons) of potable water per 30 KG (66 lb) of mortar in a clean mortar mixer. Pour 4.0 L (1.0 US gallon) of water into the blender and add 30 KG (66 lb) of MasonBond 400. Mix for 3 to 5 minutes. Allow the mortar to rest for a short period of time. Using the remaining water, adjust the mortar to obtain the desired consistency. Thoroughly clean the mixer and tools immediately after use.

## **PLACEMENT OF MORTAR**

The placement of the mortar must be done in the period of time stipulated in article 6.3.1. of CSA A179-14.

## **CLEANING**

This product contains a polymer in powder form. Avoid contact with the surface of the elements to be installed. If the use of cleaning products is necessary, be sure to contact the manufacturer of the product to validate the compatibility of the product and the procedure to follow.

Regardless of the technique, or product selected, it is essential to preserve the integrity of the mortar.

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**LIMITATIONS**

- » Do not use the MasonBond 400 as a mortar for laying conventional masonry units. In this case, refer to the other KING mortars.
- » Never add admixtures on-site to modify set time, handling or any other property of the plastic or hardened mortar
- » Use only the recommended amount of water to obtain the properties of the desired plastic or hardened mortar

**PACKAGING**

This product is packaged in 30 KG (66 lb), triple-lined bags or bulk bags, wrapped on wooden pallets.

**STORAGE AND SHELF LIFE**

Always store in a dry area, protected from the weather. On-site, an additional tarpaulin must be used to cover the product to prevent water infiltration. Unopened, properly stored bags have a shelf life of 12 months.

**SAFETY PROCEDURES**

This product is made of Portland Cement. Wearing safety equipment used for the handling of cement-based products is therefore recommended: rubber gloves, dust mask and safety glasses. Safety Data Sheets can be provided upon request.

**TECHNICAL DATA\***

<b>COMPRESSIVE STRENGTH</b> ASTM C 109	<b>1 day</b>	8 MPa (1160 psi)
	<b>7 days</b>	15 MPa (2175 psi)
	<b>28 days</b>	20 MPa (2900 psi)

<b>FLOW</b>	75%
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**AIR CONTENT**

CSA A3004	18% Maximum
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**DIRECT TRACTION TESTS**

CSA A23.2-6B

Support	Average Strength	
	MPa	psi
<b>Plywood</b>	< 0.02	< 2.90
<b>Plywood + Metal Lath</b>	< 0.19	< 27.56
<b>Concrete Board</b>	< 1.10	< 159.54
<b>Concrete Board + Metal Lath</b>	< 1.30	< 188.55
<b>Concrete Block</b>	< 1.26	< 182.75
<b>FREEZE-THAW, SALT-SCALING RESISTANCE</b> CSA A231.2	<b>Number of Cycles</b> 50	<b>Mass Loss</b> < 50 g/m <sup>2</sup> (1.5 oz/yd <sup>2</sup> ) [Durability criteria: <500 g/m <sup>2</sup> (14.7 oz/yd <sup>2</sup> )]

**VAPOUR TRANSMISSION**

ASTM E 96	4.5 Perms - Metric
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<b>YIELD PER 30 KG (66 LB) BAG</b>	0.018 m <sup>3</sup> (0.65 ft <sup>3</sup> ) of fresh mortar
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\*All average values of the KING product are obtained under laboratory conditions.

**Note:** The contents of this Technical 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 Technical 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, 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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