MASONBOND 400

Canadian standards do not recommend a specific installation method for the installation of cultured element. It is therefore possible to install masonry units directly on the support without the installation of a metal lath (Step 2). In this user guide King is proposing the best installation technique possible.

PROUD MEMBER OF:

L'ASSOCIATION DES ENTREPRENEURS EN MAÇONNERIE DU QUÉBEC

Canadian Masonry Contractors Association

KING
A SIKA COMPANY

KING LOCATIONS

Oakville Office
555 Michigan Drive, Suite 100,
Oakville, ON, L6L 0G4
Ph.: (905) 639-2993
Fax: (905) 333-3730

Brantford Office
541 Oak Park Rd.,
Brantford, ON, N3T 5L8
Ph.: (519) 756-6177
Fax: (519) 756-7490

Sudbury Office
644 Simmons Rd.,
Dowling, ON, P0M 1R0
Ph.: (705) 855-1155
Fax: (705) 855-1122

Boisbriand Office
3825 rue Alfred-Laliberté,
Boisbriand, QC, J7H 1P7
Ph.: (450) 430-4104
Fax: (450) 430-6855

Distributed by:

1-800-430-4104 • masonry@kpmindustries.com
www.king-masonry.com

THE MASONRY PEOPLE

POLYMER-MODIFIED MORTAR

MASONBOND 400

Polymer-modified mortar designed for the installation of cultured and paving stones

USER GUIDE

KING
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EXAMPLE OF THE INSTALLATION OF CULTURED STONE ON FIBER CEMENT PANELS

STEP 1

INSTALLING THE FIBER CEMENT PANELS

Make sure the fiber cement panels are securely anchored to the structure. In doubt, please refer to the architect's specifications or consult a structural engineer.

STEP 2

INSTALLING THE METAL LATH

Although the installation of a metal lath is no longer required by Canadian standards, we believe that this technique strengthens the whole structure and for this reason we recommend the installation of a metal lath. The installation of the metal lath is an important step. It must be securely anchored to the support.

STEP 3

APPLYING THE SCRATCH COAT

Whether or not you have installed a metal lath, you must apply a base coat. If the metal lath has been previously installed, a base coat must be applied to completely cover the lath (minimum 6 mm). For the base coat you can use MasonBond 400 or a Type S mortar such as King Block. It is important to give this layer a rough profile which will allow the MasonBond 400 to bond well with the base coat. Allow the mortar to cure for at least 24 hours.

STEP 4

APPLYING MASONBOND 400

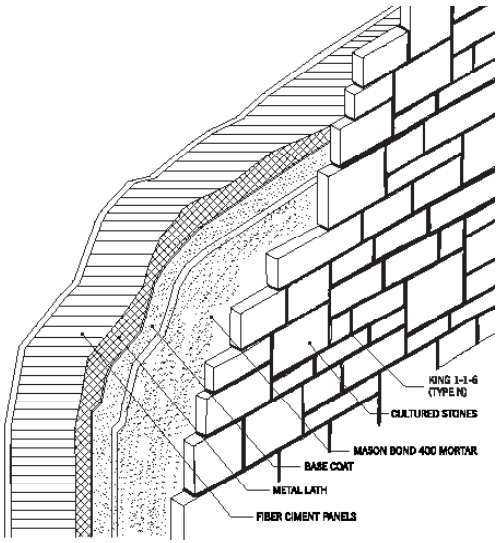
Before applying MasonBond 400, make sure the surface is free of dust or other substances that may interfere with the bond between the cured base coat and the MasonBond 400. Mix a small amount of mortar following the recommendations indicated on the product data sheet. Moisten the base coat surface without letting water accumulate. Using a trowel, apply the mortar directly onto the base coat (minimum 20 mm) and on the back of the stone. Make sure to completely cover the entire back surface of the stone. Then apply the stone to the wall using light pressure for several seconds. Once released the stone should remain bonded to the wall. If needed use fastening screws to secure the stone. Let cure for 24 hours.

STEP 5

MORTAR JOINTS

To fill the joints, proceed as follow:

1. If fastening screws were required in step #4, carefully remove them.
2. Ensure that the stones are well bonded to the wall.
3. Using a Type N mortar such as mortar KING 1-1-6, proceed with the filling of the joints. Using the appropriate tools, make sure to compact the masonry joint while giving the mortar the desired finish.
4. Clean the surface using a nylon brush and clean water



BEFORE PROCEEDING WITH ANY MATERIAL INSTALLATION, IT IS BEST PRACTICE TO PERFORM A MOCK UP PRIOR TO BEGINNING INSTALLATION, AND THIS, FOR BOTH EXTERIOR OR INTERIOR INSTALLATION.

DIRECT TENSION TESTS
CSA A23.2-6B

SUPPORT	AVERAGE RESISTANCE	
	MPa	PSI
Fiber cement panel	< 1.10	159.54
Concrete block	< 1.26	182.75
Fiber cement panel +metal lath	< 1.30	188.55

APPLYING PAVEMENT AT GROUND LEVEL

Durability tests at freeze / thaw cycles in immersion CSA A231.2

Result from laboratory tests have proven that MasonBond 400 mortar is ten times stronger than the recommended standard (45 g/m^2 loss compared to the maximum accepted standard of 500 g/m^2). MasonBond 400 is therefore an excellent mortar for the installation of granite stone on the ground, landscaping product or any other product likely to be in contact with de-icing salt.