

## KING® 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 Sika Canada is proposing the best installation technique possible.



## TRAINING CENTRE

At Sika Canada, we adhere to the principle of knowledge sharing. To learn more about our products or to find out about techniques and good practices in terms of restoration, ask your Sika Canada Sales Representative about the next seminar at our training centre.

Sika is happy to assist you with your projects by providing recommendations. However, please note that the information and advice contained in this section and any other advice is given in good faith on the basis of Sika's current knowledge and experience of the products when properly stored, handled, and applied under normal conditions and in accordance with Sika's recommendations. This information applies only to the products expressly covered herein. In the event of changes in application conditions, such as changes in substrates, etc., or in the event of an application other than that described herein, the user should consult Sika Technical Services prior to using Sika products. The information and data contained in this section are provided solely to provide the user with additional information on Sika products. The contents hereof in no way dispense the user of Sika products from testing them before applying them for the intended purpose. All orders for Sika products are subject to Sika's current Terms and Conditions of Sale available on Sika's website. The user must always refer to the most recent version of the local Sika Product Data Sheet prior to each use, available on the Sika website, copies of which will be supplied on request. The user should always refer to the most recent version of the local Sika Product Data Sheet for information on the applicable Sika Limited Warranty.

## OUR LOCATIONS

### Head Office

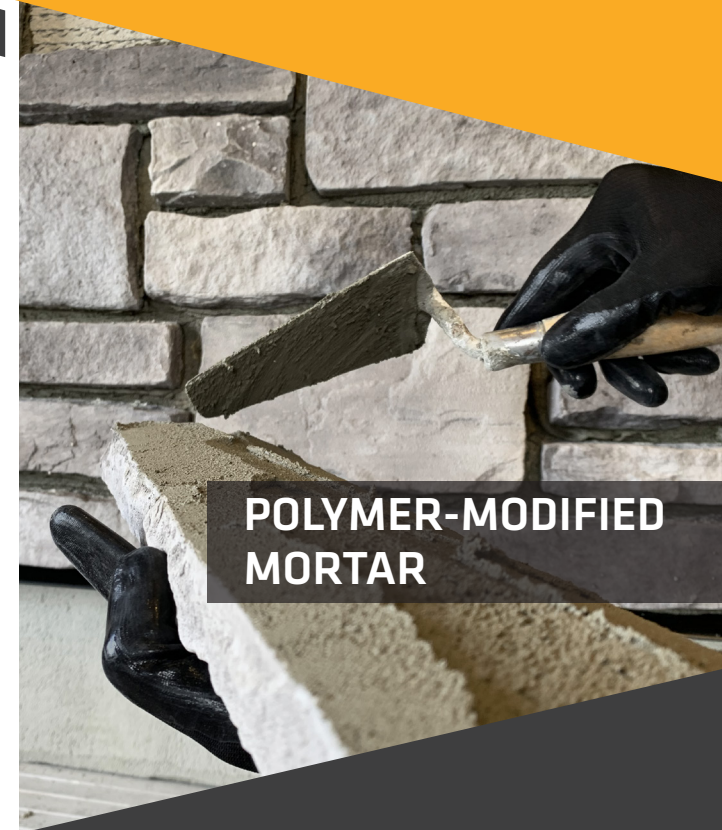
601, Delmar Avenue,  
Pointe-Claire (Quebec) H9R 4A9

### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge; Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (Colombie-Britannique)

## SIKA CANADA INC.

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## POLYMER-MODIFIED MORTAR



## KING® MASONBOND 400®

DESIGNED FOR THE  
INSTALLATION OF  
CULTURED AND  
PAVING STONES

# 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 King® 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 King® MasonBond 400® to bond well with the base coat. Allow the mortar to cure for at least 24 hours.

## ► STEP 4

### APPLYING King® MasonBond 400®

Before applying King® 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 King® 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.

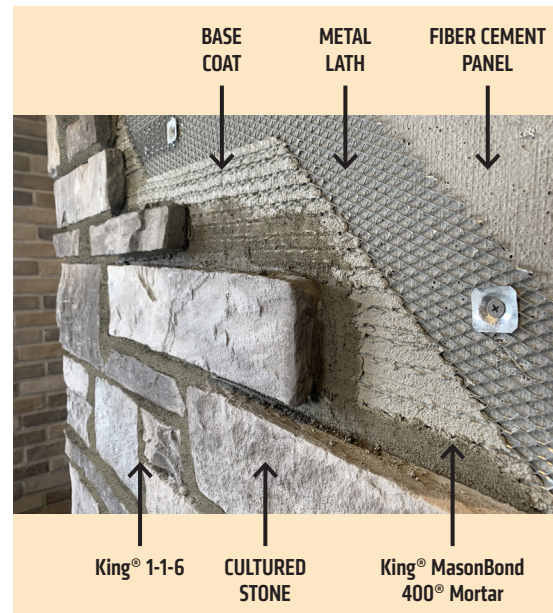
Make sure to completely cover the entire back surface of the stone. Then apply the stone to the wall using light pressure for several seconds. Once released the stone should remain bonded to the wall. If needed use fastening screws to secure the stone. Let cure for 24 hours.

## ► 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



## 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

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.

## APPLYING PAVEMENT AT GROUND LEVEL

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

Result from laboratory tests have proven that King® MasonBond 400® mortar is ten times stronger than the recommended standard (45 g/m<sup>2</sup> loss compared to the maximum accepted standard of 500 g/m<sup>2</sup>). King® 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.



Visit the Mortars and Masonry Grouts section of the Sika Canada website to discover our product portfolio and resource centre including:

Product Data and Safety Sheets, Colour Charts, Quantity Estimator, Selection Guides, Specification Templates and LEED documentation.