Appendix D to Report Report 2024 -712

Written Description of Work Proposed for Heritage Permit Application

- Repair cracks in brick wall at main entrance corner.
 - No bricks will need replacing at this time.
 - The mason will remove the existing mortar that is crumbling away and clean the brick wall.
 - Using a tuck pointing tool the mortar will be filled in. The mason will simulate the existing finish.
 - Mortar to be used is King/Sika 116.
 - After completing the work, the mason will clean the wall.



- Add metal top and repair flashing on chimney
 - A mason assessed the chimney and determined repointing will not be needed at this time. He determined the chimney was in good shape overall.
 - The flashing is not watertight, allowing moisture in, and needs to be reinstalled.
 - A metal cap will be added to the top of the chimney to prevent snow and rain from building up inside. This is already in place on the other 2 chimneys.





BUILDING TRUST



King® 1-1-6 LEED V

PRODUCT DATA SHEET

King[®] 1-1-6

Masonry mortar for laying applications



The King[®] 1-1-6 is a premixed, factory-bagged mortar specially designed for use when laying bricks, natural stones, concrete blocks and other masonry products. King[®] 1-1-6 is formulated with Portland Cement, Type S hydrated lime, air-entraining admixture, and masonry sand with masonry sand with controlled grain size.

WHERE TO USE

- Laying clay brick, natural stone or concrete blocks
- Can be used for interior and exterior application
 Parging
- Parging
 Annumber
- Any other masonry application where high bond strength is required
- Repointing of modern buildings (contact your Sika Technical Representative)

CHARACTERISTICS / ADVANTAGES

- Factory calibrated mix
- Superior adhesion
- High vapour transmission properties
- Increases waterproofing capacity of the masonry wall
- Good resistance to freeze-thaw cycles
- Self-healing properties

ENVIRONMENTAL INFORMATION

King[®] 1-1-6 contribute towards satisfying the following LEED[®]v4/v4.1 Credits:

- MR Credit Building Product Disclosure & Optimization: Environmental Product Declaration
- MR Credit Building Product Disclosure & Optimization - Material Ingredients: Manufacturer Inventory
- MR Credit Building Product Disclosure & Optimization - Sourcing of Raw Materials: Raw material source & extraction reporting

LEED documentation is available on Sika Canada Website

APPROVALS / CERTIFICATES

The King[®] 1-1-6 complies with Table 6 of CSA-A179-14 for Type N mortar with addition of water in the field.

CSC MasterFormat®	04 05 13 - Masonry Mortaring and Grouting Specifications template are available on Sika Canada Website	
Packaging	30 kg (66 lb) triple-lined bags or 1 500 kg (3 307 lb) FIBC and polywrapped on wooden pallets.	
Shelf Life	12 months in original, unopened bag	
Storage Conditions	Always store in a dry area, protected from the weather. At the job site, an	

PRODUCT INFORMATION

PRODUCT DATA SHEET King® 1-1-6 June 2024, Version 01.03 021850101000000187

additional tarpaulin mus infiltration.	t be used to cover the product to prevent water	
Powder / Grey, Cream, White, Silver or custom colours. Note: May be factory-coloured or at the job site using the King [®] Colour- Plus Pigment System exclusive to Sika Canada. All pigments used conform to the requirements of <i>ASTM C979 Pigments for Integrally Colored Con- crete.</i>		
		J
ASTM C109 - Minimum		
7 days	28 days	
3.5 MPa	6.5 MPa	
<u>(</u> 508 psi)	(943 psi)	
Note: The pigments used to colour the mortar have no effect on the mech- anical properties of the mortar.		
ASTM C596		
0.129 % at 91 days		
ASTM C1506 / Water Retention		
70 % Minimum		
ASTM E96		
20 Perms		
EN-1015-7 Method / Air Content		
Maximum 18 %		
ASTM C666M		
50 cycles		
Approx. 0.018 m ³ (0.65 ft ³) of fresh mortar per 30 kg (66 lb) bag		
ASTM C1437 / Flow		
110 % +/- 5 %		
Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.		
Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.		
Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.		
	 infiltration. Powder / Grey, Cream, M Note: May be factory-copeling Pigment System exist to the requirements of <i>Acrete</i>. ASTM C109 - Minimum 7 days 3.5 MPa (508 psi) Note: The pigments user anical properties of the anical properties of the anical properties of the ASTM C596 0.129 % at 91 days ASTM C1506 / Water Report 90 % Minimum ASTM C1506 / Water Report 90 % Minimum ASTM C596 20 Perms EN-1015-7 Method / Aire Maximum 18 % ASTM C666M 50 cycles Approx. 0.018 m³ (0.65 fff ASTM C1437 / Flow 110 % +/- 5 % Refer to the "Placement document on Sika Cana Refer to the "Placement document on Sika Cana Refer to the "Placement document on Sika Cana 	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

All values required by the CSA A-179-14 Standard, as well values of the King® 1-1-6 product, are obtained under laboratory conditions. The values of the King® 1-1-6 product are applicable when the product is used as a laying mortar; if the product is used as a repointing or parging mortar, the values will be different.

LIMITATIONS

- Do not use King[®] 1-1-6 when Type S mortar is specified, use King[®] 2-1-9 or King[®] Block instead.
- Never add admixtures at the job site to modify set time, workability, or any other property of the mortar in its plastic or hardened state.
- Always use potable water.
- Use only the recommended water dosage to obtain the desired properties of the mortar in its plastic or hardened state.
- Never use on frozen surfaces.

CONSTRUIRE LA CONFIANCE

• Do not use King[®] 1-1-6 for below ground level applic-



PRODUCT DATA SHEET King[®] 1-1-6 June 2024, Version 01.03 021850101000000187

ations

Colour variations on the hardened mortar can be observed even if the mortar in-place has been previously factory-prepared and complies with the project specifications. These colour variations are mainly attributable to inadequate application conditions such as delay between mixing and tooling of joints, lack of protection against the weather during installation, or variable absorption/moisture rates of the construction elements. In order to avoid an undesirable result, we recommend that you pay particular attention to these points.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

MIXING

Small batch

Important: In order to avoid segregation issues, always mix the total content of one bag. If less than a 30 kg (66 lb) of King[®] 1-1-6 is required, dry mix - without water – the entire content of a bag in a clean container, take the required amount, and then add water to the amount withdrawn from the mixture.

Large batch

Always mix the entire contents of the bag. Mix the King[®] 1-1-6 with a maximum of 5 L (1.3 US gal.) of water per 30 kg (66 lb) bag in a clean mortar mixer. Pour 4.5 L (1.2 US gal.) of water into the mixer and add 30 kg (66 lb) of King[®] 1-1-6. Mix for three (3) to five (5) minutes, or five (5) to ten (10) minutes when using a coloured mortar or when a colourant is added at the job site. Allow the mortar to stand for a short period of time. Using the remaining water, adjust the mortar to obtain the desired consistency.

Once the desired consistency is achieved, it is not recommended to add water to the coloured mortars in order to compensate for water loss caused by evaporation. Adding water may affect the final colour of the product.

APPLICATION

The application of the mortar must comply with the requirements of Sections 6 and 7 of CSA-A371-14.

APPLICATION METHOD / TOOLS

TOOLING OF THE JOINTS

The tooling of joints exposed to rain is an important step that contributes to the waterproofing of the masonry system and must be done using a jointer. The amount of water present in the mortar joint at the time of tooling will determine the final colour of the cured mortar. To avoid colour variation, ensure that the mortar joint always contains the same amount of water when it is tooled. As a general rule, the joint is considered ready to be tooled when the mortar has hardened sufficiently such that a finger mark remains. Unless otherwise stated, a concave joint is preferred.

CLEAN UP

In order to avoid the use of chemicals, it is always recommended to remove as much mortar splashes or stains as possible before the material hardens. Uses water, a piece of burlap or wood. If the use of cleaning products is necessary, be sure to contact the manufacturer of the product to validate the compatibility and the procedure to follow. It's important to mention to the manufacturer that it is a hydrated lime mortar based with the addition of Iron and Titanium Oxides pigment when coloured.

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

Be sure to clean a test area before proceeding with the work.

Clean all tools and equipment after use with water. Once hardened, the product can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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