

PRODUCT DATA SHEET

King® CELLFILLER E-20

Fine masonry grout for filling applications



PRODUCT DESCRIPTION

The King® CELLFILLER E-20 is a premixed, factory-bagged grout specially designed for filling cells and other cavities when laying concrete blocks. This grout is composed of cementitious materials, masonry sand with controlled grain size and other carefully selected components.

WHERE TO USE

- Ideal for filling concrete blocks cores and other cavities when a controlled expansion is needed
- Can be used for interior and exterior applications
- Ideal for any application requiring a uniform flow, in addition to being expansive to compensate for shrinkage generally observed with the use of conventional grouts

CHARACTERISTICS / ADVANTAGES

- Factory calibrated mix
- Expands during its plastic phase
- Superior adherence
- May be poured or pumped
- Superior flow and performance characteristics

ENVIRONMENTAL INFORMATION

King® CELLFILLER E-20 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

King® CELLFILLER E-20 complies with Table 7 of CSAA179-14 for Fine Grout with addition of water.

PRODUCT INFORMATION

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 1500 kg (3307 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 additional tarpaulin must be used to cover the product to prevent water infiltration.

Appearance / Colour	Powder / Grey
Density	ASTM C185 2058 kg/m ³ (128 lb/ft ³)

TECHNICAL INFORMATION

Compressive Strength	ASTM C39 - Minimum 7 Days 15 MPa (2175 psi)	28 Days 20 MPa (2900 psi)
Expansion	Expansion in a plastic state < 5 %	
Bleeding	ASTM C940 / Drainage and segregation < 2 %	
Yield	Approx. 0.018 m ³ (0.65 ft ³) of fresh grout per 30 kg (66 lb) bag	
Flowability	ASTM C143 / Slump 200 mm (8 in) to 275 mm (11 in)	
Product Temperature	Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.	
Ambient Air Temperature	Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.	
Substrate Temperature	Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.	

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® CELLFILLER E-20 product, are obtained under laboratory conditions.

LIMITATIONS

- King® CELLFILLER E-20 cannot be used for laying masonry units; use King® mortars
- Always use potable water
- Never add admixtures at the job site to modify set time, workability, or any other property of the grout in its plastic or hardened state
- Use only the recommended water dosage to obtain the desired properties of the grout in its plastic or hardened state
- Never use the grout if the cells are saturated with water
- Never use grout on frozen surfaces

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

Mix a maximum of 4.5 L (1.2 US gal.) of water per 30 kg (66 lb) of King® CELLFILLER E-20 in a clean mortar mixer. Pour 4.0 L (1.0 US gal.) of water into the mixer and add 30 kg (66 lb) of King® CELLFILLER E-20. Mix for 5 to 10 minutes. Allow the grout to rest for a short period of time. Using the remaining water, adjust the grout to obtain the desired consistency.

APPLICATION

The placement of the grout must meet the requirements of Sections 6 and 8 of CSA-A371-14.

APPLICATION METHOD / TOOLS

- Make sure the masonry application has hardened sufficiently before placing the grout.
- If multiple pours are required, leave a 25 mm (1 in) to 75 mm (3 in) gap on top of the previous row to produce a key effect between pours.
- Pour the mixed product, on-site, within 15 minutes of mixing.

CLEAN UP

In order to avoid the use of chemicals, it is always recommended to clean grout projections on adjacent surfaces such as sidings, neighboring openings, metal

flashings, etc. within the hour following the installation by using only clean water and a nylon brush.

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.