

## TYPE S MORTAR - DIVISION 04

### KING BLOCK

KING Block is a pre-blended, pre-packaged Type S mortar specifically designed for use with concrete blocks. This mortar is a blend of cementitious material, masonry sand and other carefully selected components. KING Block mortar conforms to CSA A179-04 for Type S mortar with the addition of water. It is grey in colour but can also be blended with a variety of colouring agents.

#### FEATURES & BENEFITS

- Economical.
- High compressive strength.
- Increased bond strength.
- Excellent resistance to freeze-thaw cycles.
- Pre-blended, ensuring consistency from the first batch to the last.
- All KING products are manufactured using ISO 9001:2008 Certified Processes.

#### USES

- Ideal for use in laying concrete blocks.
- Can be applied indoors, outdoors or for any other masonry application where high compressive strength is required.

#### PROCEDURES

##### Mixing:

KING Block should be mixed with 4.5 litres (1.2 US gallon) of potable water per 30 kg (66 lb.) bag, in a clean paddle mixer. Add 4.0 litres (1.0 US gallon) of water into the mixer along with 30 kg (66 lb.) of KING Block mortar and mix for 3 to 5 minutes. If a colouring agent is required, add to mixer and continue mixing for an additional 5 to 10 minutes. Add only enough of remaining water to bring mix to desired consistency.

#### TECHNICAL DATA

CSA A-179-04

	LAB	JOBSITE
<b>COMPRESSIVE STRENGTH</b>		
<b>MINIMUM REQUIRED BY CSA A 179</b>		
<b>7 Day</b>	7.5 MPa (1090 psi)	5 MPa (725 psi)
<b>28 Day</b>	12.5 MPa (1810 psi)	8.5 MPa (1230 psi)
<b>STRENGTH OF KING BLOCK</b>		
<b>7 Day</b>	10 MPa (1450 psi)	N/A
<b>28 Day</b>	15 MPa (2175 psi)	N/A
<b>FLOW</b>	100-115 %	130-150 %
<b>AIR CONTENT</b>	18 % Maximum	
<b>WATER RETENTION</b>	70 % Minimum	
<b>FLEXURAL STRENGTH</b>		
<b>ASTM C 348</b>	4.5 MPa (650 psi)	

#### OPTIMUM PERFORMANCE

- KING Block should not be used where Type N mortar is specified. For applications requiring conventional Type N Mortar, please refer to KING 1-1-6.
- The substrate and mortar temperature should be between 5 and 38°C (40 and 100°F) and maintained in this range for 72 hours after mortar application.
- Never use on-site admixtures to modify setting time, workability, or any other properties of plastic or hardened mortar.
- Use only the recommended water content to achieve the desired plastic and hardened mortar properties.

#### YIELD

- 30 kg (66 lb.) bag contains approximately 0.018 m<sup>3</sup> (0.65 ft<sup>3</sup>) of fresh mortar.

#### PACKAGING

KING Block is normally packaged in 30 kg (66 lb.) triple lined bags or bulk bags and poly wrapped on wooden pallets. All KING products can be custom packaged to suit specific job requirements.

#### STORAGE AND SHELF LIFE

Material should be stored in a dry covered area protected from the elements. Unopened bags have a shelf life of 12 months.

#### SAFETY PROCEDURES

KING Block contains Portland cement. Normal safety-wear such as rubber gloves, dust mask and safety glasses used to handle conventional cement based products should be worn. Material Safety Data Sheets are available upon request.

Note: The contents of this 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 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.

V0613



Mixing Strength With Satisfaction

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