

**TYPE N AND S MORTAR
DIVISION 04**

KING COLOURED MORTARS

FEATURES & BENEFITS

- » Factory calibrated mix
- » Superior adhesion
- » Increases waterproofing capacity of the masonry wall
- » Good resistance to freeze-thaw cycles

USES

- » Laying clay brick, natural stone or concrete blocks
- » Indoors, outdoors or for any other masonry application where high bond strength is required
- » Parging

CAUTION

Colour variations on the hardened mortar can be observed even if the mortar in-place has been previously coloured in the factory and complies with the project specifications.

These colour variations are mainly attributed to various implementation conditions such as delay between mixing and tooling of the joints, lack of protection against the weather during implementation, or rate of absorption/humidity variability. In order to avoid an undesirable result, we recommend that you pay particular attention to these points.

KING coloured Type N and Type S mortars are pre-mixed, pre-bagged, and specially designed for use when laying bricks, natural stones, concrete blocks and other masonry products. These mortars are generally composed of, but not limited to containing, Type GU Portland Cement, hydrated lime, an air-entraining agent, masonry sand with controlled grain size, and an Iron Oxide, a Carbon Oxide or pigment from other sources.

EXECUTION

- The application of the mortar must comply with the requirements of Sections 6 and 7 of CSA A371-14
- Never spread mortar on frozen surfaces

MIXING

Mix KING coloured mortar with a maximum of 5 L (1.3 US gallons) of potable water per 30 KG (66 lb) of mortar in a clean mortar mixer. Pour 4.0 L (1.06 US gallons) of water into the mixer and add 30 KG (66 lb) of KING Type N or Type S coloured mortar. Mix for 10 minutes. Allow the mortar to rest 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.

PLACEMENT OF MORTAR

The placement of the mortar must be done in the period of time stipulated in article 6.3.1. of CSA A179-14.

TOOLING OF THE JOINTS

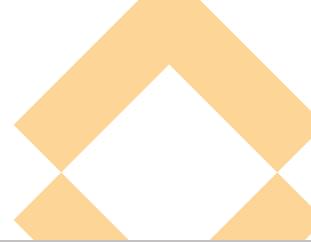
The tooling of joints exposed to rain is an important step that contributes to the waterproofing of the masonry system, and must be done using a jointer. The amount of water present in the mortar joint at the time of tooling will determine the final colour of the cured mortar. To avoid colour variation, 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 fingerprint mark remains. Unless otherwise stated, a concave joint is preferred.

CLEANING

Using water, a piece of jute or a piece of wood, make sure to remove as much splash or mortar stains as possible, before the mortar hardens, as to avoid the use of cleaning agents. 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 is important to mention that the mortar contains an Iron Oxide pigment. **If the colour ONYX is used, be sure to mention that the mortar contains Carbon Oxides pigments. Generally used cleaning agents are not compatible with Carbon Oxides.**

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.



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LIMITATIONS

- » Do not use a KING coloured Type N mortar when Type S mortar is specified. In this case, it is recommended to use KING 2-1-9 or KING BLOCK.
- » Do not use a KING coloured Type S mortar when Type N mortar is specified. In this case, it is recommended to use KING 1-1-6.
- » Never add admixtures on-site to modify set time, handling or any other properties of the plastic or hardened mortar.
- » Use only the recommended amount of water to obtain the desired plastic or hardened properties of the mortar.
- » Do not use KING coloured mortars for floor applications.

PACKAGING

This product is packaged in 30 KG (66 lb), triple-lined bags or bulk bags, wrapped on wooden pallets.

STORAGE AND SHELF LIFE

Always store in a dry area, protected from the weather. On-site, an additional tarpaulin must be used to cover the product to prevent water infiltration. Unopened, properly stored bags have a shelf life of 12 months.

SAFETY PROCEDURES

This product is made of Portland Cement. Wearing safety equipment used for the handling of cement-based products is therefore recommended: rubber gloves, dust mask and safety glasses. Safety Data Sheets can be provided upon request.

TECHNICAL DATA*

	REQUIREMENT OF CSA A179-14 STANDARD	AVERAGE VALUE OF KING TYPE N	AVERAGE VALUE OF KING TYPE S
COMPRESSIVE STRENGTH			
ASTM C 109	Type N	Type S	
7 Days	3 MPa (435 psi)	7.5 MPa (1088 psi)	3.5 MPa (508 psi)
28 Days	5 MPa (725 psi)	12.5 MPa (1813 psi)	6.5 MPa (870 psi)
FLOW			
	110% +/- 5%	110% +/- 5%	110% +/- 5%
AIR CONTENT			
EN 1015-7 Method A	18% Maximum	10-12%	10-12%
WATER RETENTION			
ASTM C 1506	70% Minimum	70%	70%
VAPOUR TRANSMISSION			
ASTM E 96	N/A	20 perms	15 perms
WITHDRAWAL			
ASTM C 596 - 91 Days	N/A	0.129%	0.119%
FREEZE-THAW RESISTANCE			
ASTM C 666M	N/A	Excellent after 50 cycles	Excellent after 100 cycles
YIELD PER 30 KG (66 LB) BAG			
	N/A	0.018 m ³ (0.65 ft ³) of fresh mortar	

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

Note: The contents of this Technical 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

This product is designed to meet the performance specifications outlined in this product Technical 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.

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