

PRODUCT DATA SHEET

Sable Marco® 116 Mortar

Masonry mortar for laying applications

DESCRIPTION

Sable Marco® 116 Mortar is a pre-blended Type N mortar, formulated with Portland cement, Type S hydrated lime, air-entraining admixture and graded masonry sand. Specially designed for laying bricks, concrete blocks, natural stone, and other masonry units in both interior and exterior applications. It delivers excellent workability, strong adhesion, and enhanced water resistance. Sable Marco® 116 Mortar also demonstrates good resistance to freeze-thaw cycles.

USES

Sable Marco® 116 Mortar is designed for laying bricks, natural stone, and concrete blocks in both interior and exterior environments. It is suitable for parging, re-pointing of modern masonry buildings, and other applications requiring high bond strength and durability.

FEATURES

- Pre-blended, ready-to-use
- Superior adhesion
- Improved workability and ease of application
- High vapour transmission properties
- Increases waterproofing resistance of masonry walls
- Durable under freeze-thaw conditions
- Self-healing properties

CERTIFICATES AND TEST REPORTS

Sable Marco® 116 Mortar meets the requirements of CSA-A179 for Type N mortar when used as directed.

PRODUCT INFORMATION

Packaging	30 kg (66 lb) bag
Colour	Grey
Shelf life	12 months in original unopened bag
Storage conditions	Store in a dry, covered area protected from the elements. If the product has been in contact with water or moisture or contains hardened lumps, do not use it.
Density	~1900 kg/m ³ (~119 lb/ft ³)
pH-Value	12

TECHNICAL INFORMATION

Compressive strength	7 days	4.7 Mpa (681 psi)	(ASTM C109)
	28 days	7.4 Mpa (1073 psi)	
	All values required by the CSA-A179 Standard, as well values of the Sable Marco® 116 Mortar product, are obtained under laboratory conditions.		

Permeability to water vapour	20 Perms	(ASTM E96)
Porosity	18 % max.	(EN-1015-7 Method/ Air Content)
Water retention	70 % min.	(ASTM C1506/ Water Retention)

APPLICATION INFORMATION

Mixing ratio	5.0 L (1.3 US gal) of clean, potable water / 30 kg (66 lb) bag
Yield	Approx. 0.019 m ³ (0.67 ft ³) per 30 kg (66 lb) bag
Material temperature	Refer to the Application instructions section
Ambient air temperature	Refer to the Application instructions section
Substrate temperature	Refer to the Application instructions section

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 Standard, as well as the values of the Sable Marco® 116 Mortar product, are obtained under laboratory conditions. These values are applicable when the product is used as a laying mortar; if the product is used as a repointing or paring mortar, the values will be different.

LIMITATIONS OF USE

- Do not use Sable Marco® 116 Mortar where Type S mortar is specified. Use Sable Marco® Type S Mortar Mix instead.
- Do not add any admixtures on site to modify setting time, workability, or other properties of the mortar.
- Use only clean, potable water. Do not exceed the prescribed water dosage.
- Do not apply on frozen surfaces or in freezing conditions.
- Not suitable for below ground level applications.

ECOLOGY, HEALTH AND 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

Cold Weather Placement

- From -4 °C to 4 °C (25 °F to 40 °F): Mortar must be maintained between 4 °C and +50 °C (40 °F and 122 °F).
- From -7 °C to -4 °C (19 °F to 25 °F): Mortar must be maintained between 4 °C and 50 °C (40 °F and 122 °F). Heat must be provided on both sides of the walls. Windbreaks must be used when wind speed exceeds 25 km/h (15.5 mph).
- 7 °C (19 °F) and below: Mortar must be maintained

between 4 °C and 50 °C (40 °F and 122 °F). Enclosures and supplementary heat shall be provided to maintain an air temperature above 0 °C (32 °F).

Cold Weather Protection for Completed Masonry or Inactive Sections

- From 0 °C to 4 °C (32 °F to 40 °F): Masonry shall be protected from rain or snow for 48 hours.
- From -4 °C to 0 °C (25 °F to 32 °F): Masonry should be completely covered for 48 hours.
- From -7 °C to -4 °C (19 °F to 25 °F): Masonry shall be completely covered with insulating blankets for 48 hours.
- Below -7 °C (19 °F): The masonry temperature shall be maintained above 0 °C (32 °F) for 48 hours by enclosure and supplementary heat.

Hot Weather Placement

- Cover the works with a waterproof tarpaulin to prevent them from drying too quickly. Make sure to use a tarpaulin that does not stain.
- Never wet the masonry units, unless otherwise indicated by the professional in charge of the project.

MIXING

Small batch mixing:

When mixing a partial amount, always start by dry mixing the entire contents of a 30 kg (66 lb) bag of Sable Marco® 116 Mortar in a clean container. This step ensures uniform distribution of all components. Once thoroughly blended, measure out the required quantity of dry mortar and add clean, potable water only to the portion being used. This method helps maintain consistent properties in the final mix.

Large batch mixing:

Always mix the full content of the bag to ensure product consistency and optimal performance. In a clean mortar mixer, begin by pouring approximately 4.5 L (1.2 US gal) of clean, potable water. Gradually add the full 30 kg (66 lb) of Sable Marco® 116 Mortar while mixing. Mix for three (3) to five (5) minutes. Allow the mortar to stand for a short period of time, then, if necessary, adjust the consistency with up to an additional 0.5 L (0.13 US gal) of water. Do not exceed a total of 5 L (1.3 US gal) of water per 30 kg (66 lb) bag.

Note:

Once the desired consistency is achieved, do not retemper the mix or add water to compensate for evaporation. Do not introduce any admixtures or accelerators on site unless specifically authorized by the manufacturer.

APPLICATION

The application of Sable Marco® 116 Mortar must comply with the requirements of Sections 6 and 7 of CSA-A371.

If the ambient temperature is 25 °C (77 °F) or above, the mortar should be placed within 1 ½ hours of mixing.

If the ambient temperature is 25 °C (77 °F) or below, the mortar should be placed within 2 ½ hours of mixing.

Mortar not used after these periods of time should be discarded.

Finishing:

To enhance both the appearance and weather resistance of the masonry system, all joints must be compacted and smoothed using a suitable jointer. This process ensures proper consolidation of the mortar and helps seal the joint against moisture penetration. Finishing must be done by compaction once the mortar has hardened sufficiently to retain a finger mark. Unless otherwise specified, a concave joint profile is recommended for optimal durability and water resistance.

CLEANING OF EQUIPMENT

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

To minimize the need for chemical cleaners, remove mortar splashes and stains before the material hardens, using water and a soft material such as burlap or wood.

If chemical cleaning is required, consult the product manufacturer to ensure compatibility with hydrated lime-based mortar. Always test the cleaning method on a small, inconspicuous area first to confirm it does not damage the mortar.

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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