

PRODUCT DATA SHEET

Sable Marco® Concrete Mix

Pre-blended, ready-to-use concrete mix

DESCRIPTION

Sable Marco® Concrete Mix is a pre-blended, ready-to-use concrete mix formulated from high-quality cementitious materials and well-graded aggregates. It is designed for general concrete construction, repairs, and overlays requiring a minimum thickness of 50 mm (2 in). Meets or exceeds ASTM C387 strength requirements, providing durable, high-strength performance for a variety of interior and exterior applications.

USES

Sable Marco® Concrete Mix is suitable for new concrete construction, overlays, and repair applications. It can be used to construct footings, sidewalks, driveways, slabs, steps, and patios, as well as to set deck posts, fence posts, and poles, providing a versatile solution for both residential and commercial projects.

FEATURES

- Ready-to-use, for easy application
- High compressive strength
- Suitable for a variety of construction and repair applications
- Suitable for interior and exterior applications

PRODUCT INFORMATION

Packaging	30 kg (66 lb) bag / 56 bags per pallet		
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	2,100 kg/m³ (131 lb/ft³)		
pH-Value	12		
Compressive strength	7 days	20 Mpa (2900 psi)	ASTM C39
	28 days	27.5 Mpa (4000 psi)	
Meets or exceeds strength requirements of ASTM C 387 when used as directed. All values are obtained under laboratory conditions.			

APPLICATION INFORMATION

Mixing ratio	3.5 L (0.92 US gal) of clean, potable water per 30 kg (66 lb) bag
Yield	Approx. 0.014 m ³ (0.5 ft ³) per 30 kg (66 lb) bag
Material temperature	Between 5 °C (40 °F) and 30 °C (86 °F)
Ambient air temperature	Between 5 °C (40 °F) and 30 °C (86 °F)
Substrate temperature	Between 5 °C (40 °F) and 30 °C (86 °F)

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.

LIMITATIONS OF USE

- Avoid application at temperatures below 5 °C (40 °F) or above 30 °C (86 °F).
- Use only clean, potable water. Do not exceed the prescribed water dosage.
- Intended for applications requiring a minimum thickness of 50 mm (2 in).

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

SURFACE PREPARATION

Surfaces to be repaired must be clean and free of dirt, dust, grease, or other contaminants. Remove all delaminated or unsound concrete by chipping with a hammer and chisel or using a stiff wire brush. Clean the area with potable water, leaving the substrate saturated but free of standing water. Highly porous concrete may require multiple wettings to achieve full saturation.

MIXING

Pour the contents of the bag into a mortar box, wheelbarrow, or mechanical mixer. When mixing by hand, form a crater in the center for adding water. Add water gradually, up to 3.5 L (0.92 US gal) per 30 kg (66 lb) bag, until the desired consistency is achieved. Mix thoroughly until a uniform, workable mix is obtained. Avoid a soupy mix, as excess water reduces strength, durability, and may cause cracking. In cold weather, use warm water to accelerate setting; in hot weather, use cold water to slow it down.

APPLICATION

Concrete repairs:

- **Placing:** After mixing, place and consolidate the concrete evenly within the repair area. Use a straight-edged board to level the surface by moving it in a sawing motion, removing excess material and filling low spots. Allow the concrete to set or wait until bleed water evaporates before proceeding with finishing. The time required will vary depending on weather conditions.
- **Finishing:** Once bleed water has evaporated, finish the surface as desired. For a smooth finish, use a wood, magnesium, or aluminum float. For a textured finish, use a broom or brush. When repairing over existing joints or cracks, tool a joint into the fresh mix above the existing joint using a jointer tool. The joint should be approximately half the depth of the repair. **Note:** Avoid finishing too early or overworking the concrete, as this may cause dusting, cracking, scaling, and a weak surface.

Setting posts:

Excavate the hole to the required depth, ensuring it extends below the frost line. Allow approximately 50 mm (2 in) clearance around the post. Position the post in the hole and pour the mixed concrete evenly around it. Use a level to ensure the post is properly aligned. Cross-brace the post securely while the concrete sets. Allow the concrete to cure for at least 24 hours before removing the bracing and backfilling.

New construction:

- **Preparation:** Excavate to the required depth to accommodate the base and concrete thickness. Ensure the subgrade is stable, well-compacted, and properly drained. Install standard formwork with a slight slope to direct surface water runoff. Apply a form release agent to all contact surfaces before placing the concrete.
- **Mixing and Placing:** Mix the concrete as directed. Pour into the forms and slightly overfill. Use a trowel along the edges to remove air pockets. Tap the forms gently to smooth the sides. Use a straight board to level the surface.
- **Finishing:** Smooth the surface with a float. Stop when bleed water appears. After the water dries, finish as needed, use a float for a smooth surface or a broom for texture. Use an edging tool to shape the edges. Avoid overworking the surface.

- **Jointing:** Add joints to help control slabs cracking. Use a jointer while the concrete is soft or saw cut 6 to 18 hours after hardening. Joints should be about 1/5 the depth of the slab and spaced approximately every 2.4 m (8 ft).

CURING TREATMENT

Curing involves maintaining the right temperature and humidity levels. Wait for the new material to set, until the surface is hard to the touch. Then keep the material damp or cover it with a polyethylene sheet to prevent the mixing water from evaporating for at least 3 days. Protect from frost for at least 24 hours.

CLEANING OF EQUIPMENT

Clean all tools and equipment immediately after use with water. Once hardened, material 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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