PRODUCT DATA SHEET

Sable Marco® Concrete 6000

High-strength, pre-blended concrete mix

DESCRIPTION

Sable Marco® Concrete 6000 is a high-strength, pre-blended concrete mix designed for construction and repair applications requiring high compressive strength. It contains Portland cement, a well-graded blend of aggregates, and special admixtures to enhance performance and durability. It offers excellent resistance to freeze-thaw cycles and salt-scaling, making it well-suited for use in harsh weather conditions. Suitable for new construction, overlays, and repairs with a minimum thickness of 50 mm (2 in) in both residential and commercial applications.

USES

Sable Marco® Concrete 6000 is suitable for new concrete construction, overlays, and repair work. It is ideal for footings, sidewalks, slabs, steps, patios, and other general concrete applications. It can also be used to set deck posts, fence posts, and poles.

FEATURES

- High compressive strength
- Ready-to-use, for easy application
- Excellent resistance to freeze-thaw cycles and salt-scaling
- Durable and long-lasting performance in harsh environmental conditions
- Suitable for a variety of construction and repair applications

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	2,100 kg/m³ (131 lb/ft³)

TECHNICAL INFORMATION

Compressive strength	7 days	31 MPa (4500 psi)	ASTM C39
	28 days	42 MPa (6000 psi)	
	Exceeds the strength requirements of ASTM C387 when used at directed.		

APPLICATION INFORMATION

Mixing ratio	3.1 L (0.8 US gal) of clean, potable water / 30 kg (66 lb) bag
Yield	Approx. 0.014 m^3 (½ 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

For repair works, the surfaces must be free of dirt, dust, grease, and other contaminants. Remove all delaminated or unsound concrete by chipping with a hammer and chisel or using a stiff wire brush. Clean the area to be repaired with clean, potable water, leaving the concrete saturated but free of standing water. Some very porous concretes may require several applications of water to ensure complete saturation.

MIXING

Pour the contents of a 30 kg (66 lb) bag into a clean container, gradually add clean, potable water while mixing, not exceeding 3.1 L (0.8 US gal). Mix thoroughly until a uniform mixture is achieved. If the mixture is too thick, add a little water at a time, taking care not to thin too much to achieve the desired consistency. Excess water reduces strength and can cause cracking. In cold weather, use warm water to accelerate the set. In hot weather, use cold water to slow the set.

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:

Dig 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 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 run-off. 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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