Sand Mix Concrete

SHAW RESOURCES
A MEMBER OF THE SHAW GROUP LIMITED

Product Description

Shaw Resources **Sand Mix Concrete** is a blend of mortar sand and cement for use where concrete thickness will not exceed 50 mm. It also contains fly ash, a pozzolanic additive that results in a finished product that is more durable, denser, and smoother, has a higher ultimate strength and is more salt, chemical and water resistant.

Product Uses

Practical for use by the homeowner or professional, it is ideal for projects around the home. Its uses include re-surfacing or levelling sidewalks and steps, parging, grouting, repairing cracks or honeycombs, filling sill voids or tree cavities, and laying flagstone.

Technical Data

Applicable Standards

ASTM C387 – Standard Specifications for Packaged, Dry, Combined Materials for Mortar and Concrete

ASTM C387 Standards	Metric	Imperial
7 day Compressive Strength (ASTM C39)	20.0 MPa	3000 psi
28 day Compressive Strength (ASTM C39)	34.5 MPa	5000 psi
Slump (ASTM C143)	50-75 mm	2″-3″
*Results confirmed by third party analysis in accordance with ASTM C387		

Product Packaging

Product is available in 25 kg (55 lb) bag and yields approximately 13.3 L (or 0.47 ft3).

Installation

Mixing

Empty the bag contents into a mixer, a water tight pan or onto a hard smooth surface. Add water a little at a time, mixing thoroughly to provide desired consistency. Avoid runny mixtures.

Placement and Finishing

After reaching desired workability, place in pre-dampened forms, tamp mix with a rod or stick and tap forms gently. Level work with a straight edge. Allow to stiffen noticeably before troweling. Use a steel trowel for a smooth finish, a wooden float for a rough finish, and a broom or brush for a textured effect.

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Topping Applications

For the best bonding results between the old concrete base and the topping, remove all dirt, dust and other debris from the old concrete surface using one of the following methods:

- Wet or dry sandblasting
- Mechanical removal by scarifiers or scabblers; or
- Acid Etching (caution should be taken when handling muriatic acid)

Wipe clean the scratched surface and soak the old concrete base for at least one hour before laying down the topping. Remove any excess water and for best results, apply a BONDING AGENT on top of the old concrete base. Before the bonding agent has hardened, mix the Concrete Sand mix to the desired workability and apply, leveling the topping with a straight edge board.

Curing

Do not use for 24 hours. For the most durable surface, keep wet for the first few days. Once mixed, keep from freezing until fully set. The hydration of cement is effected significantly by water content and temperature. In hot, low humidity and windy conditions evaporation of the water in the concrete stops the hydration process. Alternatively, when below 10^{0}C (50^{0}F) the hydration process slows considerably. These conditions could result in cracks, delamination and ultimate failure of the concrete product. Concrete is cured best with sufficient moisture, mild temperature and little wind. Curing should take place for 5 days in warm to hot conditions, greater than 20^{0}C (68^{0}F) and 7 days in cooler weather, less than 20^{0}C (68^{0}F).

Product	Stock Code	Weight	Shipping
Sand Mix Concrete	8876	25KG	56 Bags/Pallet

P.O. Box 60 Shubenacadie,
Nova Scotia B0N 2H0
1-800-607-2509 or **sales@shawresources.ca**