

Fast Set Concrete Mix



Product Description

Shaw Resources **Fast Set Concrete Mix** is a specialty blend of dry blended stone, concrete sand, Portland cement and set accelerator. It's designed to be a time saving product and set in 15-20 minutes.

Product Uses

Shaw Resources Fast Set Concrete Mix is ideal to set poles or posts, and other objects where a rapid set time is required, and also can be used for concrete repairs, which require a quick return to service (example – walkways). For any longer term repairs, Shaw Resources regular Concrete Mix is recommended.



Technical Data

Applicable Standards

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

ASTM C387 Standards (High Early Strength)	Metric	Imperial
3 day Compressive Strength (ASTM C39)	17.0 MPa	2500 psi
7 day Compressive Strength (ASTM C39)	24.0 MPa	3500 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

PLAN YOUR PROJECT TO ENSURE THAT ONCE WATER IS ADDED, THE JOB CAN BE COMPLETED IN 2 TO 3 MINUTES.

Mixing

- Empty the bag contents into an appropriate water tight container for mixing.
- Gradually add 2.5L of clean water for each 25 kg bag.
- Mix the dry mix and water with an appropriate mixing tool until a consistent, workable mix is achieved.
- Ensure all material is mixed in with no standing water.
- Place concrete immediately.
- For colder conditions, keep the material warm and use hot water to ensure a rapid set occurs.

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Setting Fence Posts

- Excavate post hole in solid ground. Post hole should be approximately three times the width of the post and approximately 1.5 m (4.5 feet) to get below the frost line to avoid frost heave.
- Place 0.2 m (8 inches) of dry Shaw Concrete Mix in the bottom of the hole.
- Position and secure the post in the hole ensuring that it is level and plumb.
- Mix concrete as noted above and place in the hole.
- Finish the surface tapering away from the post after all water has evaporated and the concrete has stiffened slightly, to direct rain water away from the post.
- Wait 3-4 hours before removing post supports and putting strain on the posts.
- For load bearing posts, follow local building codes or contact a structural engineer for proper footing requirements.

Pouring a Slab

- Place poly sheeting on the subgrade or water subgrade to ensure moisture is not reduced in the bottom of the slab. Do not leave standing water.
- Fill the form to the full depth using recently mixed concrete.
- Vibrate the concrete or tamp the concrete with a rod to reduce air pockets and voids.
- Strike off the slab using a screed or straight board to smooth the surface.
- Finish the surface using the preferred finishing method after all water has evaporated and the concrete has stiffened slightly.

Finishing

Shaw Fast Set Concrete Mix can be finished with any standard concrete finishing technique including hand troweled, power troweled and broom finishing. Use insulated tarps or poly sheeting if temperatures are expected to drop below 0°C (32°F) for the first 2-3 days.

Curing

Curing is important to ensuring a quality and consistent concrete product. Proper curing allows the concrete to achieve the desired strength and durability characteristics. Poor curing could result in cracks, delamination and ultimate failure of the concrete product. 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°C (50°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°C (68°F) and 7 days in cooler weather, less than 20°C (68°F).

Product	Stock Code	Weight	Shipping
Fast Set Concrete	8885	25KG	56 Bags/Pallet

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