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PORTLAND CEMENT

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(GU) General Use
(GUL) General Use Limestone
(HE) High Early

Portland Cement is a finely ground powder that is mixed with sand, stone and water, to produce concrete.

USES

(GU) General Use and (GUL) General Use Limestone, Portland Cement are for use around the home. (HE) High Early, Portland Cement is for use around the home where high-early strength is required.

NOTE: Exterior concrete exposed to freezing should be air-entrained.

PROCEDURES

Mix and substrate temperatures should be maintained between 5 °C and 30 °C (40 °F and 86 °F) for at least 24 hours prior to and 48 hours after.

Mixing:

The following proportions (by volume) are recommended:

- 1 part Portland Cement
- 2.5 parts concrete sand
- 2.5 parts 3/4" (19 mm) stone
- 2 to 3 parts water: 20 L to 23 L (4.5 US gallons to 5 US gallons) per bag of cement

The key to producing high-quality concrete is the proportion of cement to water used. For this reason, use only as much water as is required to make the mix workable. Any excess water will lower the durability and strength of the hardened concrete.

CURING

Concrete develops strength via a chemical process combining cement and water, called hydration. After placing and finishing, the concrete should be protected from drying out or freezing. Hydration continues until all cement particles react with water, or until cold temperatures slow or stop the chemical reaction. Curing should take place for a period of seven (7) days and can be achieved using polyethylene (plastic) sheeting, spray-on curing compounds, or complete water saturation.

PAINTING

Concrete must be fully cured (approximately 28 days) and dry before painting. Refer to paint manufacturer directions for application instructions.

YIELD

Using proportions suggested, one 40 KG (88 lb) bag of cement will produce about 3.5 ft³ (0.1 m³) of concrete mix, approximately.

PACKAGING

20 KG (44 lb) bag
30 KG (66 lb) bag
40 KG (88 lb) bag

STORAGE & SHELF LIFE

Material should be stored in a dry, covered area, protected from the elements. Unopened bags have a shelf life of 12 months.

SAFETY PROCEDURES

CAUSES BURNS. Do not swallow. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Handle with care. Keep out of reach of children. Wear safety glasses, protective clothing and dust mask. Use only in a well-ventilated area.

FIRST AID TREATMENT: Contains cement, when wet forms a calcium hydroxide solution. If swallowed call a poison control center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for at least 15 minutes. If on skin, rinse well with water. If on clothes remove clothes. If breathed in, move person to fresh air.

WEBSITE

For more information and other projects, visit us at www.sakretecanada.com or call us at 866-725-7383.



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