

PC6000 PUMPABLE CONCRETE



PRODUCT NAME:

PUMPABLE CONCRETE 6000 (**PC6000**)

ITEM CODE:

PC600K - 3000# PUMPABLE CONCRETE 6000

PC60080 - 80# PUMPABLE CONCRETE 6000

MANUFACTURER:

PACKAGE PAVEMENT Co., Inc.
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SECTION I - MATERIAL DESCRIPTION

PACKAGE PAVEMENT® PUMPABLE CONCRETE 6000 mix is an engineered concrete suitable for use in all applications that require the use of pumping equipment for pour in place concrete. It provides an air entrained, rheology modified structural concrete with a minimum 28-day compressive strength of 6000 psi. PC6000 is designed to deliver high early compressive strength.

PC6000 provides a cohesive, stable concrete blend at placement with no aggregate segregation and consistent pumping characteristics. Built-in chemistry provides for a controllable and steady, pourable flow for optimum performance in the field. With a maximum coarse aggregate size of 3/8", it is suitable for placement with a variety of pump types.

Recommended slump of 5-9 inches is required in order to maintain consistent application and strength yields.

SECTION II - COMPOSITIONAL DATA

PC6000 is a blend of fine and coarse ASTM C-33 aggregates, Portland Cement, Fly Ash, and a combination of proprietary admixtures. It will achieve the slump necessary for pumping at a very low water to cement ratio while maintaining optimum strength and pourability for repairs or new installations.

Optimum Water / Cement Ratio should be 0.32 (Range 0.30 to 0.38) - roughly 0.90 gallons per 80 lb bag or 34 gallons per bulk 3000 lb bag.

Air has been carefully controlled to 6% plus or minus 1.5% for superior product flow and limited shrinkage when formed.

SECTION III - MATERIAL PROPERTIES

This product meets the compressive strength requirements for concrete using normal weight sand as specified in ASTM C-387, "Standard Specifications for Packaged, Dry, Combined Materials for Mortar and Concrete." The product will exceed the minimum compressive strength required when tested according to that specification. Slumps are workable from 5" - 9" depending on environmental factors.

Proper curing increases the strength and durability of concrete. Please refer to ACI 308, "Standard Practice for Curing Concrete," ACI Manual of Concrete Practice, Part 2, for more information on proper curing techniques.

SECTION IV - PACKAGING & STORAGE

PC6000 is available in two packaging options, 80 lb multi-walled kraft paper bags or 3000 lb bulk bags in woven white polypropylene. All pallets and bags are labeled with a traceable lot number and batch information for track and traceability

Product is palletized and hooded to provide the opportunity for storage on site; additional weather protection (tarps) are advised if stored outdoors. Product shelf life is 9-12 months after production but this can be adversely affected by the elements or humidity.

SECTION V - HOW TO USE THE MATERIAL

A mechanical mixer is required to ensure a homogeneous blend.

Add approximately 3/4 of the water requirements to the mixer, then add PC6000. While mixing slowly add the balance of the water to achieve the desired slump. Continue mixing for a total of five to seven minutes to allow the admixtures to activate in the mix. A test batch is recommended to determine the exact water requirements prior to batching for placement.

After placing PUMPABLE CONCRETE as per standard industry practices, follow ACI (American Concrete Institute) standards for concrete finishing.

TECHNICAL DATA

COMPRESSIVE STRENGTH TESTS:

3 DAY _____ **6000 psi.***

7 DAY _____ **7000 psi.***

28 DAY _____ **8000+ psi.***

Test Method - ASTM C39

Independent results provided by Advance Testing

* Slump at 9.0" (ASTM C143)

PRODUCT DATA

WARNINGS:

- DO NOT EXCEED 0.96 Gallons (3.6 Liters) per 80 lb bag or 36 Gallons (136 Liters) per 3000 lb Bulk Bag.
- DO NOT EXCEED RECOMMENDED SLUMP of 5 - 9". (Too much water will cause segregation of the aggregates and will result in diminished compressive strengths.)
- DO NOT USE PRODUCT ACCELERATORS WHEN MIXING THIS PRODUCT.

CAUTION:

WARNING! PLEASE REVIEW BEFORE USING THIS PRODUCT. CAUTION! Contains Portland cement and silica sand. Avoid direct contact with eyes or skin. Prolonged inhalation of dust may cause delayed lung injury, including silicosis and possibly cancer. Contact with freshly mixed product can cause severe burns if not treated immediately. If product comes in contact with eyes, immediately flush with water for at least 15 minutes and consult a physician. If product comes in contact with skin, wash skin thoroughly with soap and water. If irritation persists, consult a physician immediately. Dust mask, eye protection and gloves are recommended when handling or opening this package. KEEP OUT OF REACH OF CHILDREN.

TECHNICAL SERVICES:

Please contact us before using the product if you have any questions regarding its use.

Email: sales@packagepavement.com
 Web: www.packagepavement.com
 Phone: (800) 724-8193 Fax: (845) 221-0433

WARRANTY:

PACKAGE PAVEMENT warrants this product to be of merchantable quality when used or applied in accordance with the instructions hereon. This product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of this product (as purchased) found to be defective, or at the shipping company's option, to refund the purchase price. In the event of a claim under this warranty, notice must be given in writing to PACKAGE PAVEMENT, PO Box 408, Stormville, NY 12582. THIS WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES..

Bag Weight(s): _____	PACKAGING
REGULAR	80 lb (36.2 kg)
BULK	3000 lb (1361 kg)
Bag Yield: _____	REG. (80 lb BAG):
	0.62 cu. ft.
	BULK (3000 lb BAG):
	23 cu.ft.
Water (Avg/Max): _____	REG. (80 lb BAG):
Average	0.90 gal. (3.4 Liters)
Maximum	0.96 gal. (3.6 liters)
Water (Avg/Max): _____	BULK (3000 lb BAG):
Average	33.7 gal. (127.6 Liters)
Maximum	36.0 gal. (136.3 liters)
% AIR _____	6% (+/- 1.5%)
Strength: _____	6000+ psi @ 28-Days
Freeze/Thaw Resistance:	300 cycles
(ASTM C-666)	92% Durability Factor

***Note ASTM C928 (Standard for packaged, dry, rapid-hardening cementitious materials for concrete repairs), specifies that the product should be tested as in ASTM C-882; C928 lists a minimum shear bond strength of 1500 psi @ 7 days.

PRODUCT SPECS
ENGINEERED CEMENT



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 QUALITY CONSTRUCTION MATERIALS
 SINCE 1951