

PC 5000 PUMPABLE CONCRETE



1. Product Name:

PUMPABLE CONCRETE 5000 (PC5000)

2. Item Code:

PC301K - 3000# PUMPABLE CONCRETE 5000

PC30180 - 80# PUMPABLE CONCRETE 5000

3. Manufacturer:

PACKAGE PAVEMENT® Co., Inc.
675 Leetown Road, PO Box 408
Stormville, NY 12582
(800) 724-8193
FAX (845) 221-0433
www.packagepavement.com

4. Uses:

PACKAGE PAVEMENT PUMPABLE CONCRETE 5000 mix is an engineered concrete suitable for use in all applications that require the use of pumping equipment for concrete placement. It provides an air entrained, rheology modified structural concrete with a minimum 28-day compressive strength of 5000 psi. PC5000 provides a cohesive, stable concrete mix at placement with no segregation.

5. Composition and materials:

PC5000 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.

6. Technical Data:

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 4.5" - 8.5" depending on environmental factors.

7. Mixing:

A mechanical mixer is required to ensure a homogeneous blend. Water requirements are roughly 0.80 gallons per 80 LB bag or 36 gallons per bulk bag. Add approximately 75% of the water requirements to the mixer, then proceed to add PC5000. 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.

8. Finishing:

After Placing PUMPABLE CONCRETE as per standard industry practices, you can proceed to create the desired finish. Follow ACI (American Concrete Institute) Standards for the finishing of this product.

9. Curing:

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. Curing should be started as soon as possible and should continue for a period of 5 days in warm weather at 70 degrees F (21° C) or higher or 7 days in colder weather at 50 - 70 degrees F (10 - 21° C). Water curing with lawn sprinklers, nozzles or soaking hoses must be continuous to prevent interruption of the curing process.

10. Precautions:

- DO NOT EXCEED 0.90 Gallons (3.4 Liters) per 80 LB bag or 34 Gallons (1296 Liters) per 3000 LB Bulk Bag.
- DO NOT EXCEED RECOMMENDED SLUMP OF 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.

11. 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.

TECHNICAL DATA

COMPRESSIVE STRENGTH TESTS:

3 DAY _____ 3500 psi.*

7 DAY _____ 4500 psi.*

28 DAY _____ 5000+ psi.*

Test Method - ASTM C39

Independent results provided by Advance Testing

* Slump at 9.25" (ASTM C143)

PRODUCT DATA

12. 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

13. 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.

Bag Weight(s):
REGULAR
BULK

PACKAGING
 80 LB (36.2 kg)
 3000 LB (1361 kg)

Bag Yield: _____

REG. (80 LB BAG):
 0.62 cu. ft.
BULK (3000 LB BAG):
 23 cu.ft.

Water (Avg/Max): _____
Average
Maximum

REG. (80 LB BAG):
 0.80 gal. (3.0 Liters)
 0.90 gal. (3.4 liters)

Water (Avg/Max): _____
Average
Maximum

BULK (3000 LB BAG):
 30 gal. (113 Liters)
 34 gal. (128 liters)

Strength: _____

5000+ psi @ 28-Days**

Air Content: _____

4-6%

Freeze/Thaw Resistance: _____
(ASTM C-666)

300 cycles
 92% Durability Factor

Shear Bond Strength: _____
(ASTM C-882)

28 Days 2260 psi***
 7 Days 1870 psi***

** Compressive strength designed to achieve 5000 psi when mixed under field conditions.

***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



BUILD. SET. GO®
 QUALITY CONSTRUCTION
 MATERIALS
 SINCE 1951