



# PACKAGE PAVEMENT®

## LIGHTWEIGHT CONCRETE (2-PART)

**1. Product Name:**

Lightweight Concrete Mix (2-Part)  
(4000 PSI MIX)

**2. Item Code:**

90870 - Solite Part 2  
90871 - Concrete Part 1

**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:**

Lightweight Concrete is used when structural concerns require a minimum increase to the dead load. Lightweight Concrete is ideal for roof deck repairs, stair pan fill, elevated floor slabs or overlays on existing floor decks. It can also be used for appliance platforms, curbs, down spout gutters, balconies, floors, fish ponds, walls, setting posts, castings, steps, or virtually any job that would normally be done with standard weight concrete. Use it where ease in lifting and carrying is important. Lightweight Concrete also offers slower temperature transfer rates than standard weight concrete, resulting in improved insulation factors.

**5. Composition and materials:**

Lightweight Concrete consists of a uniformly blended and proportioned mixture consisting of sand, portland cement and performance enhancing additives designed for light weight concrete applications. Each 80 Lb. bag of fine materials is blended with one 25 Lb. bag of lightweight coarse aggregate during the mixing process. Air content is approximately 3%. The use of lightweight aggregate results in a yield increase of 10-25% over conventional concrete without a reduction in compressive strength.

**6. Technical Data:**

Use Lightweight Concrete for pouring concrete 2" thick or thicker. Lightweight Concrete meets the compressive strength requirements for lightweight 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 may be a maximum of 4-5" for these strength results.

**7. Mixing:**

Lightweight Concrete mix can be mixed by hand, but for best results use a mechanical mixer. Add the 25 lb. bag of coarse aggregate (Part 2) to your mixer and .8 gallons of water. Allow the stone to soak for approximately two minutes, and then add the 80lb bag of fine aggregate (Part 1). Slowly add up to one gallon of additional water. Mix for three to five minutes to activate the admixtures and allow complete chemical activation of all the ingredients. The concrete should be relatively stiff, with no more than a 5" slump. Do not exceed more than 2 gallons of water for each complete 2 part bag mix. Place concrete as per standard industry practices.

**8. Finishing:**

Allow concrete to stiffen slightly, waiting until all water has evaporated from the surface before troweling or applying a broom finish. For best results, do not overwork the material (this may cause the lightweight aggregate to float). Any standard concrete finishing technique is acceptable for use with Lightweight Concrete Mix. Concrete can be hand troweled, power troweled, broom finished or completed with other specialty finishes.

**9. Curing:**

Proper curing increases the strength and durability of concrete. Acrylic Concrete Cure & Seal provides the easiest and most convenient method of curing. Apply by spray, brush or roller soon after the final finishing operation when the surface is hard. Complete coverage is essential. Alternately, freshly placed concrete can be moist-cured by covering the surface with burlap or plastic sheeting or by keeping the surface wet with a lawn sprinkler. 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. If burlap or plastic sheets are used, they must be laid flat, thoroughly sealed at joints and anchored carefully along the edges.

**TECHNICAL DATA**

**COMPRESSIVE STRENGTH TESTS:**

**7 DAY** ————— **4680 psi.\***  
**28 DAY** ————— **6395 psi.\***

**Test Method - ASTM C39**  
Independent results provided by Advance Testing  
\* Slump at 5" (ASTM C143)

**PRODUCT DATA**

**10. Precautions:**

- Curing compounds should not be applied if rain or temperatures below 50 degrees F (10 degrees C) are expected within 24 hours.
- Do not use curing compounds during late fall on surfaces where deicers will be used to melt ice and snow. Using curing compound at that time may prevent proper air drying of the concrete, which is necessary to enhance its resistance to damage caused by deicers.
- Protect concrete from freezing during the first 48 hours. Plastic sheeting and insulation blankets should be used if temperatures are expected to fall below 32 F (0 C).
- Regular iron oxide pigments in powder or liquid form can be used to color Lightweight Concrete. As with all concrete colorants, precise measurement of the concrete mix, color and water are essential to produce a uniform final color of the concrete placed.
- Curing with plastic or burlap can cause patchy discoloration in colored concrete. For colored concrete, wet curing or the use of Acrylic Concrete Cure & Seal is recommended.

**11. Warranty:**

Package Pavement warrants this product to be of merchantable quality when used or applied in accordance with the instructions herein. The 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 a refund of the purchase price. In the event of a claim under this warranty, notice must be given to Package Pavement in writing. This limited warranty is issued and accepted in lieu of all other express warranties and excludes liability for consequential damages.

**12. Technical Services:**

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

Email: [sales@packagepavement.com](mailto:sales@packagepavement.com)

Web: [www.packagepavement.com](http://www.packagepavement.com)

Phone: (800) 724-8193 Fax: (845) 221-0433

**13. Caution:**

KEEP OUT OF REACH OF CHILDREN. Read application and mixing instructions before using this product. CAUTION! Contains portland cement and silica sand. May be irritating to eyes and nose. Prolonged inhalation may cause delayed lung injury, including silicosis and possibly cancer. Avoid eye contact or prolonged contact with skin. After use, wash skin thoroughly with water for at least 15 minutes. If irritation persists, consult a physician immediately. Dust mask, eye protection and gloves are recommended when handling or opening this package.

**Bag Weight(s):**

Solite (Part 2)	25 lb. (11.3 kg)
Concrete (Part 1)	80 lb. (36.2 kg)

**Combined Weight\*:** 105 lb.

**Avg. Weight/cu. ft.** 116 lb./cu.ft.

**Bag Vol./Yield Appx.** 1.0 cu. ft.  
6 sq. ft. @ 2" thick

**Water - Average  
- Maximum** 1.86 gal. (7.05 liters)  
2.00 gal. (7.60 liters)

**Strength** 4000 psi @ 28 Days\*\*

\* All yields are based on the combined ingredients of the two part system.

\*\* Compressive strength designed to achieve 4000 psi when mixed under field conditions.



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