

# MASONRY GROUT FINE 4000 PSI

## MIX CERTIFICATIONS

Package Pavement Co Inc.  
675 Leetown Road  
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## Cement Mill Test Report

Month of Issue: February-13

<b>Plant:</b>	Ravena, New York
<b>Product:</b>	Portland Cement Type I/II(MH)
<b>Manufactured:</b>	January-13

### ASTM C 150-11 and AASHTO M 85-09 Standard Requirements

CHEMICAL ANALYSIS			PHYSICAL ANALYSIS		
Item	Spec limit	Test Result	Item	Spec limit	Test Result
<i>Rapid Method, X-Ray (C 114)</i>			<i>Air content of mortar (%) (C 185)</i>		
SiO2 (%)	—	19.9		12 max	8.2
Al2O3 (%)	6.0 max	4.8	<i>Blaine Fineness (m2/kg) (C 204)</i>		
Fe2O3 (%)	6.0 max	3.2		280-420**	386
CaO (%)	—	61.9	<i>-325 (%) (C 430)</i>		
MgO (%)	6.0 max	4.0		—	94.3
SO3 (%)	3.0 max *	2.7	<i>Autoclave expansion (%) (C 151)</i>		
NaEq (%)	—	0.65		0.80 max	0.11
Loss on ignition (%)	3.0 max	2.06	<i>Compressive strength Mpa (PSI) (C 109)</i>		
Insoluble residue (%)	0.75 max	0.45			
Cement CO2 (%)		1.10	<i>3 days</i>		
Limestone (%)	5.0 max	2.70		12.0 (1740) min	25.3 ( 3670 )
CaCO3 in Limestone (%)		92.6		19.0 (2760) min	32.8 ( 4760 )
<i>Adjusted Potential Phase Composition (C 150)</i>					41.6 ( 6030 )
C3S (%)		50.5	<i>Time of setting (minutes)</i>		
C3A (%)	8 max	7.3	<i>Vicat Initial (C 191)</i>		
C3S+4.75*C3A (%)	100 max	85.1		45 - 375	131
<i>Optimum SO3 (%) (C 563)</i>			<i>Heat of Hydration (cal/g) (C 186)***</i>		
		2.90	<i>7 days (for information only)</i>		
<i>Expansion in Water (%) (C 1038)</i>	0.020 max	0.010		—	84.0

\* May exceed 3.0% SO3 maximum based on our C1038 results of <0.02% expansion at 14 days. Data available upon request.

\*\*The max Blaine does not apply if the Sum of C3S + 4.75\*C3A is less than or equal to 90

\*\*\* Current Production run not available - most recent provided

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements for Type I-II(MH) portland cement as specified in the American Society of Testing and Materials (ASTM) Specification C 150-11 and the American Association of State Highway and Transportation Officials (AASHTO) Specification M 85-09.

US Lakes & Seaways BU - Ravena Plant  
P.O. Box3 - Ravena, NY 12143  
CVC Phone: 1-800-263-3561

Glen Farrar  
Quality Manager



RED WING PROPERTIES INC.

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SINCE 1969

February 20, 2012

RE: ASTM C-404 Specifications

To Whom It May Concern:

This letter is our certification that all Fine and Coarse aggregates purchased from Red Wing Properties, Inc. and used to manufacture cementitious grout mixes at Package Pavement Company are materials which meet ASTM C-404 specifications.

The sand contained in Spec Mix Fine Grout and Coarse Grout is processed from NYS Source No. 8-153F material to meet ASTM C-404, Size 1 and Size 2, Natural Sand. If your material is Coarse Grout, the "coarse aggregate" meets ASTM C-404 from the same source.

Please let me know if you require any further information. Thank you.

Very truly yours,

A handwritten signature in cursive script that reads "Eileen C. Doherty".

Eileen C. Doherty  
Technical Director



3348 Route 208, Campbell Hall, NY 10916  
 Phone: 845-496-1600 Fax: 845-496-1398  
 25 Hathorn Road, Enfield, NH 03748  
 42 Day Farm Road, West Stockbridge, MA 01266

Client:	Package Pavement Co. Inc.	Project:	Quality Control
Item:	Concrete Sand (Roe Jan) REF#508	Project Number:	070702
Source:	Package Pavement	Lab Number:	12-0198A
Date Sampled:	3/2/2012	Sampled By:	Client
Date Tested:	3/8/2012	Tested By:	John Brinsfield

**GRADATION (SIEVE ANALYSIS) OF SOIL OR AGGREGATE**  
 Test Method(s): ASTM D422, C136, C117; AASHTO T88, T27, T11

Lab Number	Sample Type	Sampling Location	Specification
12-0198A	Concrete Sand (Roe Jan) REF#508		

Sieve Size		% Retained	% Passing	Spec. % Pass
mm	Inches			
4.75 mm	#4	0.0	100.0	
2.36 mm	#8	5.9	94.1	
1.18 mm	#16	26.6	67.5	
0.600 mm	#30	24.1	43.4	
0.300 mm	#50	25.1	18.3	
0.150 mm	#100	14.0	4.3	
0.075 mm	#200	2.7	1.6	
Pan		1.6		

Comments:

Minus #200 by wash-sieve method.

*Emily J. Rodriguez*

Report Reviewed By:

PDF



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 Phone: 845-496-1600 Fax: 845-496-1398  
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**CLIENT:** Spec Mix  
 Division of Package Pavements, Inc.  
 675 Leetown Road  
 Stormville, NY 12582

**PROJECT:** Quality Control

**Project No.:** 070702

<b>REFERENCE #</b>	6834
<b>MIX TYPE:</b>	Fine Grout
<b>REQUIRED STRENGTH:</b>	4000 psi

**COMPRESSIVE STRENGTH TESTS OF GROUT**

**Test Method:** ASTM C1019  
**Sample Type:** 3½ x 3½ x 7 inch Prisms  
**Date Received:** 3/19/2012  
**Date Mixed:** 3/21/2012  
**Mixed by:** Advance Testing Company, Inc. **Lab No.:** 12-0238B

**Slump, inches:** 10.0 **Mix Temp., °F:** 72 **Air Temp., °F:** 68  
**Air Content, %:** 3.7 **Unit Weight, pcf:** 131.44

Sample Number	Age, Days	Date Tested	Dimensions, inches	Area, sq. in.	Load, lbs	Compressive Strength, psi
4224	7	3/28/2012	3.25 x 3.43	11.16	40530	3630
4225	7	3/28/2012	3.52 x 3.47	12.22	40340	3300
4226	7	3/28/2012	3.43 x 3.42	11.74	38370	3270
4227	28	4/18/2012	3.54 x 3.47	12.26	53480	4360
4228	28	4/18/2012	3.43 x 3.46	11.85	48300	4080
4229	28	4/18/2012	3.35 x 3.34	11.17	48800	4370

**Comments:** Water used: 13.82 lbs (1.66 gal) per 80-lbs bag.

*Kevin L. Patton*



**Report Reviewed By:**

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