

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF PACKAGED HIGH PERFORMANCE SHOTCRETE
April 20, 2012

This list supersedes the April 13, 2012 list.
Guide Bridge Special Provision for Structural Repair of Concrete
Revised: October 15, 2011

Material Code No. 21624

For information regarding new product submittal, click the "New Submittal" bookmark to the left.

King Packaged Materials Company
3385 Harvester Road
P.O. Box 699
Burlington, ON
L7R 3Y5

Phone: 800-461-0566
905-633-6676

Attn: William Clements
Producer/Supplier No. 5668-01

www.kpmindustries.com

"MS-W1 SYNTHETIC FIBER SHOTCRETE"

Spec Mix

As manufactured by The Quikrete Companies
1S950 South Lorang Road
Elburn, IL 60119

Phone: 708-476-3486
630-557-8252

Attn: Shawn O'Malley
Producer/Supplier No. 5719-03

www.specmix.com

"SPEC MIX SHOTCRETE WP-1"

J.E. Tomes & Associates

2513 W. 140th Place
Blue Island, IL 60406
Phone: 877-JETOMES (538-6637)
708-653-5100

Attn: Joseph E. Tomes
Producer/Supplier No. 5667-02

www.jetomes.com

"GUN-RITE 5000"

"GUN-RITE 475 HP"

**Packaged High Performance Shotcrete
Submittal for Review and Approval**

Effective: July 27, 2007
Revised: [October 30 2009](#)

A. Scope

The following guidelines are provided to clarify the submittal requirements and expedite the review process for approving packaged high performance shotcrete mixtures according to the Department's Guide Bridge Special Provision for Structural Repair of Concrete¹.

B. Procedure

When submitting packaged high performance shotcrete to the Department, the following shall be included:

- The specific product brand name,
- Independent laboratory test results showing the material meets Department's specification requirements¹,
- Material Safety Data Sheet,
- Technical Data Sheet,
- A signed and dated letter certifying the following:
 - Individual weights of cement and finely divided minerals (hundredweight per cubic yard),
 - Type of cement, Class of fly ash or Grade of ground granulated blast-furnace slag,
 - Type and amount of fibers,
 - [Water soluble chloride ion content percent by weight of cement according to ASTM C 1218 at 28-42 days of age. Test results shall be performed and resubmitted every 2 years](#)
- [Each individual aggregate used in the packaged shotcrete shall have either a maximum ASTM C 1260 expansion of 0.16 percent or a maximum ASTM C 1293 expansion of 0.040 percent. However, the ASTM C 1260 value may be increased to 0.27 percent for each individual aggregate if the cement total equivalent alkali content \(\$\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}\$ \) does not exceed 0.60 percent. As an alternative to these requirements, ASTM C 1567 testing which shows the packaged shotcrete has a maximum expansion of 0.16 percent may be submitted. The ASTM C 1260, C 1293, or C 1567 test shall be performed a minimum of once every two years.](#)
- A signed letter stating the subject material will not be changed without written notification to the Department,
- Contact person's name, title, address, email address, and phone number, and
- Acknowledgement by Company (see next page).

The submittal information shall be sent to:

Melinda Winkelman
Illinois Department of Transportation
Bureau of Materials & Physical Research
126 East Ash Street
Springfield, IL 62704-4766

Any changes in the formulation outside the manufacturer's original parameters will necessitate new submittal of laboratory test results.

The manufacturer will be notified upon completion of the Department's review. For questions regarding the review and approval process, contact Melinda Winkelman at 217-782-0117.

C. Recertification

Annual recertification of all packaged high performance shotcrete is required. During the last quarter of the calendar year, a recertification letter will be sent to the manufacturer. The recertification paperwork is due January of the following year. For example, the recertification letter is mailed late November 2009 and due by mid January 2010.

¹ <http://www.dot.il.gov/bridges/qbsp.html>

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Effective: July 27, 2007

Instructions for Acknowledgement by Company:

The owner, partner, or corporate officer shall complete the following and return a signed and dated copy with the product submittal or recertification.

_____ desires to obtain advance approval of materials to be
(Insert name of company)
supplied to Department of Transportation contractors as more fully described herein. I
and _____ understand that the Department of Transportation
(Insert name of company)
reserves the right in its contracts to approve materials at the source of supply as
provided in Article 106.01 of the Standard Specifications for Road and Bridge
Construction. I and _____ further understand that approval of
(Insert name of company)
company supplied material pursuant to this request does not constitute a contract to
supply material to the State of Illinois or any of its contractors, and that the Department
of Transportation does not assure or guarantee that any materials approved hereunder
will be supplied to the State or any of its contractors. In consideration of approval, I and
_____ agree to the terms, conditions and performance
(Insert name of company)
standards of the Standard Specifications for Road and Bridge Construction.

Type of Company: Individual Partnership Corporation

Company Name _____

Printed Name _____

Signature _____

Title _____

Business Address _____

City/State/Zip Code _____

Date of Signature _____