

Illinois Department of Transportation  
Bureau of Materials

Qualified Product List  
**PACKAGED HIGH PERFORMANCE SHOTCRETE**  
**May 19, 2023**

This list supersedes the **January 7, 2022** list.  
Guide Bridge Special Provision for Structural Repair of Concrete  
Revised: August 9, 2019

**Material Code No. 21624**

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

CTS Cement Mfg. Co.  
2513 W. 140<sup>th</sup> Place  
Blue Island, IL 60406  
Phone: 877-JETOMES (538-6637)  
708-653-5100  
Attn: [Mr. Chris White](#)  
Producer/Supplier No. 4894-04  
<http://www.jetomes.com>  
"TOMES GUN-RITE 5000"<sup>(1)</sup>  
"TOMES GUN-RITE 475 HP"<sup>(1)</sup>

Sika Canada Inc.  
555 Michigan Drive  
Suite 100  
Oakville, ON  
L6L 0G4  
Phone: 905-639-2993  
905-975-1375  
Attn: William Clements  
Producer/Supplier No. 2231-02  
[www.kpmindustries.com](http://www.kpmindustries.com)  
[www.can.sika.com](http://www.can.sika.com)  
"KING MS-W1 IDOT"<sup>(2)</sup>

Spec Mix  
As manufactured by The Quikrete Companies  
1S950 South Lorang Road  
Elburn, IL 60119  
Phone: 404-926-3128  
770-216-9580  
Attn: Dave Wingard  
Producer/Supplier No. 5719-03  
[www.specmix.com](http://www.specmix.com)  
"SPEC MIX SHOTCRETE WP-1"<sup>(3)</sup>  
"SPEC MIX SHOTCRETE WP-2"<sup>(3)</sup>

- (1) Batch/lot number example (JE Tomes): 3330518102  
333=company id, 05=month, 18=day of month, 1=year, 02=lot code
- (2) Batch/lot number example (Sika Canada): 64540610:3013821  
645406=product code, 10:30=24-hour time clock, 138=Julian date, 21=year
- (3) Batch/lot number example: (Spec Mix): CHI10520WP119018180  
CHI=plant, 105=Julian date, 20=year, WP1=product name, 190181=product code,  
80=product size (#)

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**Submittal for Testing and Approval**

**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 Concrete.

**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 requirements,
- 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 for each material),
  - Type of cement, Class of fly ash or Grade of ground granulated blast-furnace slag,
  - Type and amount of fibers,
  - Gradation of aggregate included.
- Independent laboratory test results showing the water soluble chloride ion content percent by weight (mass) of cement according to ASTM C 1218 at 28 – 42 days of age. Test results shall be performed and resubmitted every 2 years (during recertification for even numbered calendar years; for example, 2022, 2024, etc.),
- 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 (test results will be due during recertification for even numbered calendar years; for example, 2022, 2024, etc.).
- 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 (Form [BMPR 101](#)). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of Acknowledgement by Company form with your product submittal.

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**Submittal for Testing and Approval, continued**

The submittal information shall be sent to:

Melinda Winkelman  
Illinois Department of Transportation  
Bureau of Materials  
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 2022 and due by mid-January 2023.