

Illinois Department of Transportation
Bureau of Materials

Qualified Product List
PACKAGED HIGH PERFORMANCE SHOTCRETE
January 19, 2024

This list supersedes the **May 19, 2023** 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. 140th 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"⁽¹⁾
"TOMES GUN-RITE 475 HP"⁽¹⁾

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
"SPEC MIX SHOTCRETE WP-1"⁽³⁾
"SPEC MIX SHOTCRETE WP-2"⁽³⁾

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
www.can.sika.com
"KING MS-W1 IDOT"⁽²⁾

- (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, 2026, 2028, 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 2024 and due by mid-January 2025.