Rapid Hardening Cement (Section 1001)

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

Material Code No. 37901
The rapid hardening cement is used for Class PP-4 concrete. The Material Code No. is 22106, “PATCHING MIXTURE, RAPID HARDENING CEMENT”.

No materials approved at this time.
Illinois Department of Transportation
Bureau of Materials
QUALIFIED PRODUCT LIST OF PACKAGED, DRY, RAPID HARDENING CEMENTITIOUS MATERIALS FOR CONCRETE REPAIRS
February 28, 2020
This list supersedes the July 5, 2019 list.
Guide Bridge Special Provision “Structural Repair of Concrete” (Revised April 1, 2016)
Recurring Special Provision for Subsealing of Concrete Pavements (Revised January 1, 2007)
Standard Specifications for Road and Bridge Construction, Section 1018 (Adopted April 1, 2016)
Standard Specifications for Road and Bridge Construction, Section 1001 (Adopted April 1, 2016)
Current Policy Memorandum, “Quality Control/Quality Assurance Program for Precast Concrete Products”
Manual for Fabrication of Precast Prestressed Concrete Products

R1 MORTAR (Section 1018)

Material Code No. 22100

*Please note: products on this list are not to be extended in the field. Choose a product on the R1 concrete page if a concrete is required.

The Quikrete Companies
500 Marathon Parkway
Lawrenceville, GA 30046
Phone: 770-216-9580
404-926-3128
Attn: Mr. Dave Wingard
Producer/Supplier No. 5719-03
www.quikrete.com
“FASTSET DOT MIX EXTENDED (NO. 1244-81)”
Illinois Department of Transportation
Bureau of Materials
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R2 MORTAR (Section 1018)

Material Code No. 22101

*Please note: products on this list are not to be extended in the field. Choose a product on the R2 concrete page if a concrete is required.

Dayton Superior Corporation
1125 Byers Road
Miamisburg, OH  45342
Phone:  800-745-3700 x44375
Attn:  Ms. Holly Jergens
Producer/Supplier No. 494-05
www.daytonsuperior.com
“HD-50”

Specco Industries, Inc.
601 North 5th Avenue
Kankakee, IL 60901
Phone:  630-257-5060
Attn:  Mr. Jeffrey C. Bencsik
Producer/Supplier No. 3936-01
www.specco.com
"SPECCOPATCH RS"

The Quikrete Companies
500 Marathon Parkway
Lawrenceville, GA  30046
Phone:  770-216-9580
404-926-3128
Attn:  Mr. Dave Wingard
Producer/Supplier No. 5719-03
www.quikrete.com
“RAPID ROAD REPAIR EXTENDED
(NO. 1242-80)"
Page 4 of 11
R3 MORTAR (Section 1018), continued

Material Code No. 22103

*Please note: products on this list are not to be extended in the field. Choose a product on the R3 concrete page if a concrete is required.

The Quikrete Companies
500 Marathon Parkway
Lawrenceville, GA  30046
Phone: 770-216-9580
404-926-3128
Attn:  Mr. Dave Wingard
Producer/Supplier No. 5719-03
www.quikrete.com

“FASTSET CONCRETE MIX (NO. 1004-51)”
“RAPID ROAD REPAIR (NO. 1242)”
“FASTSET DOT MIX (NO. 1244-56)”

SpecChem
1511 Baltimore, Suite 600
Kansas City, MO  64108
Phone: 312-579-5166
866-791-8700
816-968-5600
Attn:  Mr. Nick Carroll
Producer/Supplier No. 6389-01
www.SpecChemllc.com

“REPCON 928”
R1 CONCRETE (Section 1018)

Material Code No. 22102 “PATCHING MIXTURE, CONCRETE, R1”

No materials approved at this time.
ILLINOIS DEPARTMENT OF TRANSPORTATION
BUREAU OF MATERIALS
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R2 CONCRETE (Section 1018)

Material Code No. 22104 “PATCHING MIXTURE, CONCRETE, R2”

No materials approved at this time.
ILLINOIS DEPARTMENT OF TRANSPORTATION
Bureau of Materials
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R3 CONCRETE (Section 1018)

Material Code No. 22105 “PATCHING MIXTURE, CONCRETE, R3”

CTS Cement Mfg. Co. / Rapid Set Products
12442 Knott Street
Garden Grove, CA  90064
Phone: 800-929-3030 x188
Attn: Grant Kao
Producer/Supplier No. 4894-03
www.rapidset.com
“RAPID SET CONCRETE MIX”
Illinois Department of Transportation
Bureau of Materials
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Submittal for Testing and Approval (Rapid Hardening Cement)

A. Scope
The following guidelines are provided to clarify the submittal requirements and expedite the testing process for approving packaged, dry, rapid hardening cement according to Article 1001.01(d) of the Department’s Standard Specifications for Road and Bridge Construction, Special Provision for Subsealing of Concrete Pavements, and current BDE special provisions.

B. Procedure
When submitting packaged, dry, rapid hardening cement to the Department, the following shall be included:

- The specific product brand name,
- Safety Data Sheet,
- Technical Data Sheet,
- A signed letter stating that 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). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of the company acknowledgement form with your product submittal.

The manufacturer shall submit three to five “as-sold” packages of the subject material intended for use on Department projects. Each bag shall show the product name and mixing instructions.

The sample and submittal information shall be sent to:

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

Any sample provided without the required information listed will not be tested. Any changes in the formulation outside the manufacturer’s original parameters will necessitate a new sample submittal.

The manufacturer will be notified when the sample testing is complete. For questions regarding the testing and approval process, contact Melinda Winkelman at 217-782-0117.

C. Recertification
Annual recertification of all packaged, dry, rapid hardening cement 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 2020 and due by mid-January 2021.
Submittal for Review and Approval (Mortar or Concrete)

A. Scope
The following guidelines are provided to clarify the submittal requirements and expedite the review process for approving packaged, dry, rapid hardening mortar or concrete according to Section 1017 (Mortar) and Section 1018 (Concrete) of the Standard Specifications for Road and Bridge Construction.

B. Procedure
When submitting packaged, dry, rapid hardening mortar or concrete to the Department, the following shall be included:

- The specific product brand name,
- Class of material (R1, R2, or R3 according to ASTM C 928),
- Independent laboratory test results which show the material meets ASTM C 928,
- 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, 2014, 2016, etc.),
- Gradation test results for any aggregates contained in the product (FA and/or CA).
- Safety Data Sheet,
- Technical Data Sheet,
- 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). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of the company acknowledgement form with your product submittal.

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 independent 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, dry, rapid hardening mortar or concrete 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 2020 and due by mid-January 2021.
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 supplied to Department of Transportation contractors as more fully described herein. I and_________________________ understand that the Department of Transportation 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 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 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 ___________________________________________________________