



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
0311C209

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**BUYER 33
 304-558-2402**

PROBITY

*305103446 304-722-6804
FORM TECH CONCRETE FORMS INC
28 WINFIELD RD

SAINT ALBANS WV 25177-1558

SHIP TO

DIVISION OF HIGHWAYS
DISTRICT THREE

624 DEPOT ST
PARKERSBURG, WV
26101 304-420-4595

DATE PRINTED 03/09/2011	TERMS OF SALE NET 30	SHIP VIA BESTWAY	FOB DELIVERED	FREIGHT TERMS PRE PAID
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BID OPENING DATE: **04/07/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001				085-25	\$14.95	
	BAGS CEMENT			EUCO SPEED - 50# BAG 64 BAGS PER PALLET		
				REQUEST FOR QUOTATION (RFQ) OPEN END CONTRACT		
				THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR AN OPEN END CONTRACT TO PROVIDE 50 LB BAGS OF EUCO SPEED (PRODUCT 083A50) OR EQUAL FOR DISTRICT THREE BRIDGE DEPARTMENT PER THE ATTACHED SPECIFICATIONS.		
				TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO SHERI SLONE IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT SHERI.D.SLONE@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 03/28/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.		
	EXHIBIT 10					
				REQUISITION NO.: 0311C209		

RECEIVED
 APR -6 A 10:08
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]* TELEPHONE **(304) 722-6804** DATE **4/4/11**

TITLE **Regional Manager** FEIN **39-3179533-001** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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2

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VENDOR

*305103446 304-722-6804
 FORM TECH CONCRETE FORMS INC
 28 WINFIELD RD
 SAINT ALBANS WV 25177-1558

SHIP TO

DIVISION OF HIGHWAYS
 DISTRICT THREE
 624 DEPOT ST
 PARKERSBURG, WV
 26101 304-420-4595

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/09/2011				

BID OPENING DATE: **04/07/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 ✓ <i>[Signature]</i></p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>..... <i>[Signature]</i> SIGNATURE</p> <p>..... FORM TECH COMPANY</p> <p>..... 4/4/11 DATE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
<i>[Signature]</i>	(304) 722-6804	4/4/11	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	
REGIONAL MANAGER	38-9179533-001		

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
DATE						
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.						
REV. 09/21/2009						
EXHIBIT 3						
LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.						
UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.						
RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.						
CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN						

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 4

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<p>NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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PAGE
5

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<p>DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 05/26/2009</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p>						

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6

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03/09/2011				
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:				SHERI SLONE - FILE 33		
RFQ. NO.:				0311C209		
BID OPENING DATE:				04/07/2011		
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
----- (304) 722-6808 -----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
----- Gary Jividen -----						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
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PAGE
7

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03/09/2011	NET 30	BESTWA	DELIVERED	FREE PAID

BID OPENING DATE: **04/07/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** THIS IS THE END OF RFQ 0311C209 ***** TOTAL:						<u>\$14.95/BAG</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE (304) 722-6804	DATE 4/4/11
TITLE REGIONAL MANAGER	FEIN 38-3179533-001	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

Request for Quotation Specifications

Purpose: To establish an open end contract to provide the West Virginia Division of Highways, District Three Bridge Department with bags of packaged, dry, rapid-hardening cementitious materials for concrete repairs.

SCOPE

- This specification covers packaged, dry, cementitious mortar or concrete materials for rapid repairs to hardened hydraulic-cement concrete pavements and structures. Materials that contain organic compounds, such as bitumens, epoxy resins, and polymers, as the principal binder are not included.
- Packaged, dry, concrete material contains aggregate of which at least 5% by mass of the total mixture is retained on a 9.5-mm [3/8-in.] sieve.
- Packaged, dry, mortar material contains aggregate of which at least 5% by mass of the total mixture is retained on a 9.5-mm [3/8-in.] sieve.
- Aqueous solutions, aqueous emulsions or dispersions may be included as components of the packaged materials. The manufacture may specify that these liquids are to replace some or all of the mixing water.
- Aggregates must be included as a component of the packaged materials. The manufacturer may recommend job site addition of specific amounts and types of additional aggregates to his product for some uses. However, such reformulated products are not within the scope of this specification.
- The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.
- The following safety hazards caveat pertains to the test methods portion of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

Performance Requirements

The materials shall comply with the performance requirements in Table 1.

¹This specification is under the jurisdiction of ASTM Committee C09 on Concrete and Concrete Aggregates and is the direct responsibility of Subcommittee C09.43 on Packaged Dry Combined Materials.

Current edition approved Dec. 1, 2009. Published January 2010. Originally approved in 1980. Last previous edition approved in 2008 as C928/C928M - 08. DOI: 0.1520/C0928_C0928M-09.

Product shall perform as Type R-3

TABLE 1 Performance Requirements^A

	3 h	1 day	7 days	28 days
Compressive Strength, min, Mpa [psi]	21 [3000]	35 [5000]	35 [5000]	^B
Bond Strength, min, Mpa [psi]	--	7 [1000]	10 [1500]	--
Length change, base on length at 3 h, max, %				
	allowable increase after 28 days in water			+0.15
	allowable decrease after 28 days in air			-0.15
Consistency of concrete or mortar^C			concrete slump, min, mm [in.]	Flow of mortar, min, %
R-3 consistency at 5 min after addition of mixing liquid			75 [3]	100
Scaling resistance to deicing chemicals after 25 cycles of freezing and thawing				
Concrete, max visual rating			2.5	
Mortar, max scaled material^D			5 kg/m ² [1 lb/ft ²]	

^A It is recognized that other characteristics of rapid-hardening concrete repair materials might need consideration. Such characteristics might be necessary in some environments and applications; however, to impose specification limits on all products is considered beyond the scope of this specification. Optional considerations with suggested methods of test may include tests for the following:

Time of setting	Test Method C403/C403M
Flexural strength	Test Method C78
Freeze thaw	Test Method C666/C666M, Procedure A
Sulfate expansion	Test Method C1012

^B The strength at 28 days shall be not less than the strength at 7 days.

^C Slump of flow requirements are waived for materials intended for vertical or overhead applications.

^D A 250-mm [10-in.] square spalled to an average depth of 3 mm [1/8 in.] for 100% of its surface would have about 10 kg/m² [2.0 lb/ft²] scaled material.

Vendors bidding "or equal" merchandise must provide complete manufacturer's literature demonstrating adherence to the mandatory requirements contained herein.

DELIVERY: The above material is to be delivered to the WV Division of highways, District Three lot, located at 1423 Mill Run Road, Parkersburg, WV 26104 (Quonset Hut). The Division of Highways will only ask for complete truckloads to be delivered.

Vendor to notify District Three Bridge Engineer, Cliff Essig, two (2) days prior to delivery at (304) 420-4674.

715.4 - Approved Patching Materials for Portland Cement Concrete



- [Compaction](#)
- [Division Approved Source/Product Listing](#)
- [Evidence Of Inspection](#)
- [Maps To Facility](#)
- [Material Procedures](#)
- [Material Procedures Updates](#)
- [New Product Evaluation Procedure](#)
- [Organizational Structure](#)
- [Quality Assurance System](#)
- [Technician and Inspector Certification Program](#)
- [Tool Box](#)
- [Upcoming Materials Contracts](#)

Transportation > Highways > Materials > 715.4 - Approved Patching Materials for Portland Cement Concrete

715.4 - Approved Patching Materials for Portland Cement Concrete

Effective: October 14, 2010

Contact: John Fowler (304) 558-9889
 Email: John.W.Fowler@wv.gov

Materials Code: 1941

715.4.1 Cementitious Materials for Concrete Patching

Brand Name	Manufacturer	Type(s)	Approved Lab Number
Duracrete II	Kaufman Products (K098A)	R-1, R-2 & R-3	1380730
ChemSpeed 65	Chem Masters (C339A)	R-1, R-2, & R-3	1380461
HD-50 Heavy Duty Concrete Patch	Dayton Superior Corp. (D013A)	R-1, R-2	1390166
Euco-Speed MP	Euclid Chemical (E091A)	R-1, R-2, & R-3	1380589
Commerical Grade Fast Set Non-Shrink Grout	Quickrete (Q001A)	R-1, R-2, & R-3	1390142
Commercial Grade Fast Set DOT Mix	Quickrete	R-1, R-2, & R-3	1390143
Commercial Grade Fast Set Repair Mortar	Quickrete	R-1, R-2	1390141
Thoroc 10-60	BASF Construction Chemicals (B266A)	R-1, R-2	1395329
Thoroc 10-61	BASF Construction Chemicals (B266A)	R-1	1395327
Set 45	BASF Construction Chemicals	R-1, R-2, & R-3	1392904
Hydrozo Silane 40 VOC	BASF Construction Chemicals (B266A)		1395330

715.4 - Approved Patching Materials for Portland Cement Concrete

Contact Us Site Map Disclaimer E.E.O./AFFIRMATIVE ACTION EMPLOYER Privacy, Security and Accessibility WV.gov USA.gov © 2011 State of West Virginia	Pavemend SL	Cera Tech, Inc. (C425A)	R-1, R-2, & R-3	1394667
	DOTLine	Cera Tech, Inc. (C425A)	R-1, R-2	1394668
	1394667	Cera Tech, Inc. (C425A)	R-1, R-2, & R-3	1394669
	MG-KRETE	1IMCO Technologies, Inc. (I094A)	R-1, R-2	1392905

715.4.2 Non-Cementitious Materials for Concrete Patching

Brand Name	Manufacturer	Approved Lab Number



Designation: C928/C928M – 09

Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs¹

This standard is issued under the fixed designation C928/C928M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 This specification covers packaged, dry, cementitious mortar or concrete materials for rapid repairs to hardened hydraulic-cement concrete pavements and structures. Materials that contain organic compounds, such as bitumens, epoxy resins, and polymers, as the principal binder are not included.

1.1.1 Packaged, dry, concrete material contains aggregate of which at least 5 % by mass of the total mixture is retained on a 9.5-mm [$\frac{3}{8}$ -in.] sieve.

1.1.2 Packaged, dry, mortar material contains aggregate of which less than 5 % by mass of the total mixture is retained on a 9.5-mm [$\frac{3}{8}$ -in.] sieve.

1.2 Aqueous solutions, aqueous emulsions or dispersions may be included as components of the packaged materials. The manufacturer may specify that these liquids are to replace some or all of the mixing water.

1.3 Aggregates must be included as a component of the packaged materials. The manufacturer may recommend job site addition of specific amounts and types of additional aggregates to his product for some uses. However, such reformulated products are not within the scope of this specification.

1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.5 The following safety hazards caveat pertains to the test methods portion of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard*

¹ This specification is under the jurisdiction of ASTM Committee C09 on Concrete and Concrete Aggregates and is the direct responsibility of Subcommittee C09.43 on Packaged Dry Combined Materials.

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to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:²

- C39/C39M Test Method for Compressive Strength of Cylindrical Concrete Specimens
- C78 Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
- C109/C109M Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- C143/C143M Test Method for Slump of Hydraulic-Cement Concrete
- C157/C157M Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete
- C192/C192M Practice for Making and Curing Concrete Test Specimens in the Laboratory
- C403/C403M Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance
- C494/C494M Specification for Chemical Admixtures for Concrete
- C666/C666M Test Method for Resistance of Concrete to Rapid Freezing and Thawing
- C670 Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials
- C672/C672M Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals
- C702 Practice for Reducing Samples of Aggregate to Testing Size
- C778 Specification for Standard Sand
- C882 Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

*A Summary of Changes section appears at the end of this standard.

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C928/C928M - 09

C1012 Test Method for Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution
E96/E96M Test Methods for Water Vapor Transmission of Materials

3. Materials and Manufacture

3.1 Three types of packaged, dry, rapid-hardening concrete and three types of packaged, dry, rapid-hardening mortar are identified in Table 1.

TABLE 1 Performance Requirements^a

	3 h	1 day	7 days	28 days
Compressive Strength, min, MPa [psi]				
R1 concrete or mortar	3.5 [500]	14 [2000]	28 [4000]	^b
R2 concrete or mortar	7.0 [1000]	21 [3000]	28 [4000]	^b
R3 concrete or mortar	21 [3000]	35 [5000]	35 [5000]	^b
Bond strength, min, MPa [psi]				
R1, R2 and R3 concrete or mortar	—	7 [1000]	10 [1500]	—
Length change, based on length at 3 h, max, %				
R1, R2, and R3 concrete or mortar		allowable increase after 28 days in water		+0.15
		allowable decrease after 28 days in air		-0.15
Consistency of concrete or mortar^c			concrete slump, min, mm [in.]	Flow of mortar, min, %
R1 consistency after 15 min after addition of mixing liquid			75 [3]	100
R2 and R3 consistency at 5 min after addition of mixing liquid			75 [3]	100
Scaling resistance to deicing chemicals after 25 cycles of freezing and thawing				
Concrete, max visual rating			2.5	
Mortar, max scaled material ^d			5 kg/m ² [1 lb/ft ²]	

^a It is recognized that other characteristics of rapid-hardening concrete repair materials might need consideration. Such characteristics might be necessary in some environments and applications; however, to impose specification limits on all products is considered beyond the scope of this specification. Optional considerations with suggested methods of test may include tests for the following:

Time of setting	Test Method C403/C403M
Flexural strength	Test Method C78
Freeze thaw	Test Method C666/C666M, Procedure A
Sulfate expansion	Test Method C1012

^b The strength at 28 days shall be not less than the strength at 7 days.

^c Slump or flow requirements are waived for materials intended for vertical or overhead applications.

^d A 250-mm [10-in.] square spalled to an average depth of 3 mm [$\frac{1}{8}$ in.] for 100 % of its surface would have about 10 kg/m² [2.0 lb/ft²] of scaled material.

4. Chemical Composition

4.1 If the material contains soluble chlorides or other ingredients in sufficient quantity to cause corrosion to steel reinforcement, the package markings shall contain the following statement in letter size no smaller than the directions for use:

This material is not recommended for use in a moist environment in contact with steel reinforcement.

4.1.1 Consider a total chloride ion content (Berman, 1972)^{3,4} in the packaged repair material greater than 600 g/m³ [1 lb/yd³] of the hardened repair material indicative that the packaged material contains sufficient chlorides to cause corrosion to steel reinforcement when the concrete is exposed to weather, is on the ground, or is in an otherwise moist environment. A much lower chloride ion content is suggested for use in prestressed concrete. Guidance for such users is outside the scope of this specification.

4.2 If the material contains metallic iron in excess of 1 % by weight, the package markings shall contain the following statement in letter size no smaller than the directions for use:

If small or scattered spots of iron-staining are considered objectionable, do not use this material where it will be exposed.

5. Performance Requirements

5.1 The materials shall comply with the performance requirements in Table 1 for the applicable type.

6. Sampling

6.1 A lot is the quantity of packaged repair material normally placed on a pallet. In general, this quantity will weigh from 900 to 1800 kg [2000 to 4000 lb].

6.2 A unit sample is a single package of material randomly selected from the lot.

7. Specimen Preparation

7.1 **Concrete**—Mechanically mix the packaged dry concrete material with mixing liquid. Determine the properties of the unhardened mixture, and mold and cure the specimens in accordance with Practice C192/C192M or modifications as outlined herein.

7.1.1 The sample of packaged dry material shall be any combination of whole packages yielding not less than 20 L [$\frac{2}{3}$ ft³] of hardened material.

7.1.2 Base the quantity of water, other liquid component, or both added to the sample on the quantity per bag stated in the directions for use.

7.1.3 Place the sample in the mixing machine and add the required amount of liquid. Start mixing immediately. Continue mixing for the length of time indicated in the directions for use.

7.1.4 When making the slump test in accordance with Test Method C143/C143M, schedule work so the test will be completed in $5 \pm \frac{1}{2}$ min after the mixing liquid is added to the R2 or R3 materials or $15 \pm \frac{1}{2}$ min after mixing the liquid with the R1 materials.

7.1.5 Mold the required number of specimens using additional samples as may be necessary, mixed in accordance with

³ Berman, H. A., Determination of Chloride in Hardened Portland Cement Paste, Mortar, and Concrete. *ASTM Journal of Materials*, Vol. 7, No. 3, pp. 330-335, 1972.

⁴ Clear, K. C., and Harrigan, E. T., "Sampling and Testing for Chloride Ion in Concrete," Report No. FHWA-RD77-85. Federal Highway Administration, Washington, DC, August 1977 (Available as PB 275-428/AS National Technical Information Services).

 C928/C928M - 09

7.1.1-7.1.4. Do not use the mixtures for molding test specimens when the slump is less than that specified in Table 1.

Note 1—Where the nominal maximum particle size is not greater than 25 mm [1 in.], the use of cylindrical molds 100 mm [4 in.] in diameter by 200 mm [8 in.] in length is suggested.

7.2 *Mortar*—Mechanically mix packaged dry mortar material with mixing liquid. Determine the properties of the unhardened mixture, and mold and cure the specimens in accordance with Test Method C109/C109M or modifications as outlined herein.

7.2.1 The sample of packaged dry material shall weigh 3000 ± 3 g [6.6 ± 0.005 lb] and shall be representatively obtained from a whole package in accordance with Practice C702.

7.2.2 Base the quantity of water, or other liquid component, or both added during mixing on the quantity per unit of weight stated in the directions for use.

7.2.3 When making the flow test in accordance with the section on consistency in Test Method C109/C109M, schedule work so the test will be completed in $5 \pm \frac{1}{2}$ min after the start of mixing liquid with the R2 or R3 materials or $15 \pm \frac{1}{2}$ min after mixing the liquid with the R1 materials.

7.2.4 Mold the required number of specimens using additional samples as necessary mixed in accordance with 7.2.1-7.2.3. Do not use the mixtures for molding test specimens when the flow is less than that specified in Table 1.

7.3 In those cases where the manufacturer has indicated in the package markings, or elsewhere, that the packaged repair material can be mixed and applied at temperatures that lie beyond the range of 20 ± 8 °C [70 ± 15 °F], the product must meet the requirements of Table 1. Specimens must be made and cured in accordance with the procedures of this section. The mixing, molding and curing temperatures during the first 3 h after molding shall be within ± 1 °C [± 2 °F] of the extreme temperature(s) stated by the manufacturer in the package markings.

8. Test Methods

8.1 *Manifestly Faulty Specimens*—Treat manifestly faulty specimens in accordance with the corresponding section in Specification C494/C494M.

8.2 *Compressive Strength*—Prepare and test three test specimens for each age of test and each level of mixing temperature. Test in accordance with Test Method C39/C39M for concrete and Test Method C109/C109M for mortar.

8.3 *Length Change*—Prepare and test specimens in accordance with Test Method C157/C157M, except as modified by this section and 7.3. Use 25 mm [1-in.] prism for mortar material and 75 mm [3-in.] prism for concrete material.

8.3.1 Remove specimens from the molds at an age of $2\frac{1}{2}$ to $2\frac{3}{4}$ h after the addition of mixing liquid to the dry cementitious mixture during the mixing operation.

8.3.2 Make the initial observation of length at 3 to $3\frac{1}{4}$ h after the addition of mixing liquid to the dry cementitious mixture during the mixing operation. When specimens are cured at temperatures other than 23 ± 2 °C [73.4 ± 3 °F], then both initial and final length observations must be made with the bars conditioned to ± 2 °C [± 3 °F] of initial temperatures.

8.3.3 Immediately store one set of specimens as for “Air Storage” and one set as for “Water Storage” except that the water-stored specimens shall be stored in untreated tap water with no more than one set of specimens per container.

8.3.4 Take observations of length at age 28 days ± 20 h. Determine the average percent change in length when stored in water, and the average change in length of specimens stored in air.

8.4 *Scaling Resistance*—Make and cure the test specimens in accordance with Test Method C672/C672M, except as provided herein. For specimens of mortar omit the visual rating procedure after every 5 cycles and after 25 cycles determine the amount of scaling as the oven dry 110 ± 5 °C [230 ± 9 °F] mass per unit area of exposed test area.

8.5 *Slant Shear Bond Strength*—Prepare six complete test specimens in accordance with Test Method C882 for Type II and V systems except as modified by this section.

8.5.1 Do not apply a bonding system to prepared surface unless a bonding system is required by the manufacturer of the rapid-hardening cementitious material. Fill the top half of the cylinder with the rapid-hardening cementitious material instead of the portland cement mortar specified.

8.5.2 Test three specimens in compression at 1 day and three at 7 days. Calculate the bond strength on the elliptical area and report the failure type.

9. Report

9.1 Report the following:

9.1.1 Source and identification, including type, of material tested,

9.1.2 Details of any variations and options practiced by the tester that are recommended or allowed by the manufacturer or others,

9.1.3 Compressive strength of material at 3 h, 1 day, 7 days and 28 days,

9.1.4 Bond strength at 1 day and 7 days,

9.1.5 Percent length change at 28 days in water and in air,

9.1.6 Percent flow in mortar at 5 or 15 min,

9.1.7 Slump in concrete at 5 or 15 min, and

9.1.8 Scaling resistance after 25 cycles.

10. Precision and Bias

10.1 *Length Change:*

10.1.1 *Precision*—The precision of the length change test method described in section 8.3 is based on an interlaboratory study that was conducted in 2007.⁵ Seven laboratories tested one rapid-hardening material that consisted of commercially available rapid hardening cement blended with three parts standard graded sand complying with Specification C778. The precision values were calculated for both “water storage” and “air storage” of test specimens. A test result is defined in this specification as the average of three separate measurements (triplicate lengthchange specimens).

⁵ Supporting data have been filed at ASTM International Headquarters and may be obtained by requesting Research Report RR: C09-1035.


C928/C928M - 09

10.1.2 The single-operator standard deviation for water storage of test specimens has been found to be 0.0031 %.⁶ Therefore, results of two properly conducted tests by the same operator on the same material are not expected to differ by more than 0.009 %.⁶ The single-operator standard deviation for air storage of test specimens has been found to be 0.0067 %.⁶ Therefore, results of two properly conducted tests by the same operator on the same material are not expected to differ by more than 0.019 %.⁶

10.1.3 The multi-laboratory standard deviation for water storage of test specimens has been found to be 0.0078 %.⁶ Therefore, results of two properly conducted tests from two different laboratories on the same material are not expected to differ by more than 0.022 %.⁶ The multilaboratory standard deviation for air storage of test specimens has been found to be 0.015 %.⁶ Therefore, results of two properly conducted tests from two different laboratories on the same material are not expected to differ by more than 0.041 %.⁶

10.1.4 *Bias*—Since there is no accepted reference material suitable for determining any bias that might be associated with this test method, no statement on bias is being made.

11. Rejection

11.1 The purchaser has the right to reject material that fails to conform to the requirements of this specification. Rejection shall be reported to the producer or supplier promptly and in writing.

12. Certification

12.1 When specified in the purchase order or contract, a producer, supplier, or an independent testing laboratory shall furnish certification to the purchaser that the material has been tested in accordance with this specification and found to meet the requirements. When specified in the purchase order or

⁶ These measurements represent, respectively, the (1s) and (d2s) limits in accordance with Practice C670.

contract, a report of test results on samples taken from material shipped shall be furnished.

13. Product Marking

13.1 Mark all packages to contain the following information:

13.1.1 Specification designation.

13.1.2 R1 or R2 or R3 type.

13.1.3 Directions for use that shall include but are not limited to:

13.1.3.1 When a bonding agent is used in the test of bond strength, the type and kind of adhesive recommended to bond fresh repair material to the concrete or mortar being repaired.

13.1.3.2 The recommended amount of water, other liquid component, or both, to be mixed with the package contents.

13.1.3.3 The recommended length of mixing time or sequence of mixing and resting times in minutes.

13.1.4 Date the material was packaged.

13.1.5 The yield in litres [cubic feet] or yield in square metres per centimetre [square feet per inch] thickness when mixed with the recommended amount of liquid.

13.1.6 The net weight in each container. The contents of any container shall not vary by more than 2 % from the weight stated in the markings. The average weight of filled containers in a lot shall be not less than the weight stated in the markings.

13.1.7 If the product is formulated for use in vertical or overhead applications, it shall be so stated on the package.

14. Packaging

14.1 The material from which the containers are made shall have water vapor transmission not greater than 100 g/m² [0.2 lb/ft²] in 24 h as determined in accordance with Procedure B of Test Methods E96/E96M.

15. Keywords

15.1 cementitious mortar or concrete materials for repair; concrete; packaged; mortar; packaged; packaged dry materials for concrete repair; rapid hardening materials; repair materials

SUMMARY OF CHANGES

Committee C09 has identified the location of selected changes to this specification since the last issue, C928/C928M - 08, that may impact the use of this specification. (Approved December 1, 2009)

(J) Added new Section 10 Precision and Bias and renumbered subsequent sections and footnotes.

Committee C09 has identified the location of selected changes to this specification since the last issue, C928 - 05, that may impact the use of this specification. (Approved October 1, 2008)

(J) Revised the standard as a combined units standard.

 C928/C928M – 09

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COST SHEET

RFQ #: 0311C209

Item #	Est Quantity	Description*	Unit Cost	Amount
1	756	<p><u>Euco Speed</u> - or Equal *</p> <p>Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs - Bags</p> <p>* "Or Equal" merchandise-vendor must provide complete manufacturer's literature demonstrating adherence to the mandatory requirements contained herein.</p>	\$14.95	\$11,302.20
		The estimated quantity is for evaluation purposes only		
		TOTAL	\$	11,302.20



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 0311C209

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 BUYER 33
 304-558-2402

VENDOR

*305103446 304-722-6804
 FORM TECH CONCRETE FORMS INC
 28 WINFIELD RD
 SAINT ALBANS WV 25177-1558

SHIP TO

DIVISION OF HIGHWAYS
 DISTRICT THREE
 624 DEPOT ST
 PARKERSBURG, WV
 26101 304-420-4595

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/29/2011	NET 30	BESTWAY	DELIVERED	PRE PAID
BID OPENING DATE: 04/07/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
THIS ADDENDUM IS ISSUED TO REMOVE PAGES 10 AND 11 OF THE SPECIFICATIONS.						
THE BID OPENING DATE REMAINS 04/07/2011 AT 1:30 PM						
*****END ADDENDUM NO. 1*****						
0001	1	BG		085-25 EURO SPEED 50# BAG	\$14.95 / BAG	
***** THIS IS THE END OF RFQ 0311C209 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mary G.</i>	TELEPHONE 304/722-6804	DATE 4/4/11
TITLE REGIONAL MANAGER	FEIN 38-3179533-001	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
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16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

EUCO-SPEED

RAPID SETTING PATCHING MORTAR

HORIZONTAL REPAIR

DESCRIPTION

EUCO-SPEED is a rapid setting, rapid hardening cementitious material for patching and repair of concrete surfaces. Requiring only the addition of water, EUCO-SPEED is easy to use and can be installed with standard tools, equipment and procedures. It bonds tenaciously to properly prepared concrete and provides a durable patch.

PRIMARY APPLICATIONS

- Bridge decks
- Ramps
- Parking garages
- Pavements
- Walls (formed) and floors
- Marine structures

FEATURES/BENEFITS

- Rapid setting for quick repairs
- Rapid high early strength for quick turnaround time
- Easy to use one part system
- Suitable for both interior and exterior application
- Versatility in thickness from 1/2" (1.25 cm) to 8" (20 cm)

TECHNICAL INFORMATION

Typical Engineering Data:

Compressive Strengths ASTM C 109, 2" (50 mm) cubes

	40°F (4°C)	72°F (22°C)
3 hours	1,300 psi (9 MPa)	1,400 psi (10 MPa)
1 day	4,000 psi (28 MPa)	5,000 psi (35 MPa)
3 days	4,500 psi (31 MPa)	5,500 psi (38 MPa)
7 days	5,500 psi (38 MPa)	6,000 psi (41 MPa)
28 days	7,000 psi (48 MPa)	7,000 psi (48 MPa)

Appearance: EUCO-SPEED is a free flowing powder as packaged. After mixing and placing, the color may initially appear slightly darker than the surrounding concrete. While this color will lighten up substantially as the concrete cures and dries out, the repair may always appear somewhat darker than the surrounding concrete.

Wheeled traffic @ 70°F (21°C).....6 to 8 hours

Final set time @ 72°F (22°C):.....18 min

Flow after 5 min per ASTM C 109.....105%

Scaling per ASTM C 672 25 cycles.....none

Length change in water at 28 days

ASTM C 157+0.102%

Length change in air at 28 days

ASTM C 157-0.054%

This product is designed to be finished with a float or broom appearance. A steel trowel finish may be applied but timing of the final trowel is critical and the contractor may have difficulty achieving a smooth finish over a large area.

PACKAGING/YIELD

One 50 lb (22.7 kg) bag of EUCO-SPEED, mixed with .75 gal (2.85 L) of water, will yield approximately 0.41 ft³ (0.012 m³) of mortar. EUCO-SPEED may be extended with up to 25 lb (11.3 kg) of 3/8" (9.5 mm) pea gravel per bag for deep areas. Yield will increase to approximately 0.56 ft³ (.016 m³) per bag.

SHELF LIFE

2 years in original, unopened package.

SPECIFICATIONS/COMPLIANCES

ASTM C 928 Standard Specification for Packaged, Dry, Rapid-Hardening, Cementitious Materials for Concrete Repairs

COVERAGE

One unit of EUCO-SPEED will cover approximately 9.8 ft² (0.91 m²) when placed at an average depth of 1/2" (12.7 mm). When one unit of material is extended with 25 lb (11 kg) of 3/8" (9.5 mm) pea gravel, the mixed material will cover 13.4 ft² (1.24 m²) when placed at an average depth of 1/2" (12.5 mm).

EUCO-SPEED

Master Format #: 03 01 30.71



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An **RPM** Company



DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 5-7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming: Clean and prime exposed steel with DURALPREP A.C. Concrete should be primed with a spray or brush coat of DURALPREP A.C. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of EUCCO-SPEED. The repair must be made before the scrub coat dries out.

Mixing: Single bags may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 60°F (16°C) to 90°F (32°C). Add the appropriate amount of water, .70 - .75 gal (2.65 - 2.85L) per bag, for the batch size and then add the EUCCO-SPEED. Mix material for about 2 minutes. The mixed product should be quickly transported to the repair area and placed immediately. If extending, add pea gravel to mix water before adding dry powder.

Placement: EUCCO-SPEED sets quickly, the time available for placement and finishing will be very limited. For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Apply by hand troweling.

Finishing: Finish EUCCO-SPEED to the desired float or broom finish texture. Do not add additional water to the surface during the finishing operation; use EUCCOBAR finishing aid.

Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the repair. To prevent surface cracking, cure EUCCO-SPEED with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER REZ-SEAL. In hot, windy or direct sunlight situations, re-wet the surface after the curing compound has dried and cover with polyethylene for a minimum of three (3) days. If a curing compound is not desired, wet cure for a minimum of three (3) days.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS/LIMITATIONS

- If used in cold weather, the repair must be kept from freezing for at least 8 hours.
- Do not apply over frozen concrete.
- Do not place material at temperatures below 40°F (4°C).
- No heavy traffic until the product has reached a minimum of 2000 psi (14 MPa).
- In all cases, consult the Material Safety Data Sheet before use.

Rev. 10.09

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.

Rev. 09/08

State of West Virginia
VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. Application is made for 2.5% resident vendor preference for the reason checked:
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% resident vendor preference for the reason checked:
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% resident vendor preference for the reason checked:
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. Application is made for 5% resident vendor preference for the reason checked:
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: FORM TECHSigned: May J. [Signature]Date: 4/4/11Title: REGIONAL MANAGER

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. 0311C209

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: FORM TECH CONCRETE FORM, INC.

Authorized Signature: *Mary J.* Date: 4/4/11

State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 4 day of April, 2011.

My Commission expires March 29 2017, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC *Julia R. Larck*

