



**CENTRALBIDDING**  
FROM CENTRAL AUCTION HOUSE

**5000120241 Two year contract for miscellaneous Pipeline Maintenance  
items for Jefferson Parish Department of Public Works- Drainage.  
Jefferson Parish Government**

Project documents obtained from [www.CentralBidding.com](http://www.CentralBidding.com)

31-Jul-2017 11:23:06 AM



**Bid Number 50 - 120241**

Two year contract for miscellaneous Pipeline Maintenance items for  
Jefferson Parish Department of Public Works - Drainage.

**August 3, 2017 AT 2:00 PM**

**ATTENTION VENDORS!!!**

**Please review all pages and respond accordingly, complying with all provisions  
in the technical specifications and Jefferson Parish Instructions for Bidders and  
General Terms and Conditions. All bids must be received in the Purchasing  
Department by the bid due date and time.**

**Jefferson Parish Purchasing Department  
200 Derbigny Street  
General Government Building, Suite 4400  
Gretna, LA 70053  
Donna Reamey  
Dreamey@Jeffparish.net  
504-364-2684**

**BID # 50-00120241**  
**Two Year Contract for Miscellaneous Pipeline Maintenance**  
**Items**

**Items included in this contract:**

1. Portland Cement
2. Gravel Mix
3. Mortar Mix
4. Sand Mix
5. Ram-Nek Plastic Gasket Sealant, or Equal
6. Hydraulic Water-Stop Cement (Pipe Plug)
7. Manhole Waterproofing Material
8. Filter Cloth
9. Wooden Pallets
10. Geogrid
- 11.

**Required with bid:**

All pertinent technical specifications and literature **must** be included with the bid submission.  
**Failure to comply will cause your bid to be rejected.**

**Contract Terms:**

These specifications are prepared for a two (2) year supply of Miscellaneous Pipeline Maintenance Items used by the Department of Public Works for all Drainage and Sewerage Districts, East and West Banks.

**Warranty:**

Products shall be warranted that they are manufactured in accordance with the applicable material specifications and are free from defects in workmanship and materials for one year after delivery. Any defective items sold under this contract shall be replaced at no cost to the purchaser.

**General Specifications:**

This specification designates the general requirements for a supply of Miscellaneous Pipeline Maintenance Items used by the Department Of Public Works For All Drainage and Sewerage Districts, East and West Banks.

Parish reserves the right to purchase any quantity of units more or less than specified and/or as needed during the two (2) year period of the contract.

Material deliveries and pick-ups for bidding purposes, bid prices shall reflect a minimum delivery of two (2) pallets of any type material (i.e., Portland cement, gravel mix, sand mix, and mortar mix.) Additionally, Jefferson Parish personnel shall have the option of picking up material for small jobs at the vendor's business location, and such pick-ups shall be a minimum of one (1) bag quantities.

The bidder is not to pre-ship any quantity until authorized by purchase order.

The quantities shown on the proposal guide are approximate quantities to be acquired by Jefferson Parish over a two (2) year period. Actual usage will be on an "as needed" basis.

All pertinent technical specifications and literature must be included with the bid.

Successful bidder will be allowed 7 days, from the date of contract execution, to stock and maintain sufficient quantities on hand to meet the needs of Jefferson Parish.

Bid delivery shall include all freight and delivery costs to Jefferson Parish warehouse locations on the East and West Banks of Jefferson Parish.

### **Technical Specifications:**

I. **Portland Cement (Group 1-Item 0010):**

Portland cement shall comply with the latest ASTM C-150-09 [AASHTO M-85-09] type I specifications. Portland cement shall come in 94 lb. bags and shall be manufactured by Quikrete Co. or approved equal.

II. **Gravel Mix (Group 2-Items 0020-0040):**

Gravel mix shall conform to the latest revision of ASTM C387. The aggregates shall be hard, durable, clean, dry, uncoated particles of sand and gravel. Type I Portland cement shall be used and portions of material shall be as follows:

- **Mix by Weight-** This mix when bagged shall weigh 80 lb. Minimum. When mixed with sufficient water to produce a plastic workable mix which releases no free water. This mix shall produce a minimum compressive strength of 2500 psi/28 days. Gravel mix shall be manufactured by Quikrete or approved equal.

III. **Mortar Mix (Group 2-Items 002-0040):**

Mortar mix shall follow the latest version of ASTM 387 and ASTM C270 for type n mortar mix. The aggregate shall be hard, durable, clear, dry, uncoated particles of sand, masonry cement, type I and type II shall be used. Portions of materials shall be as follows:

- **Mix by Weight:** this mix when bagged shall weigh 80 lbs. Minimum. When mixed with sufficient water to produce a stiff yet plastic workable mix which release no free water. This mix shall produce a minimum compressive strength of 750 psi/28 days. Mortar shall be manufactured by Quikrete or approved equal.

IV. **Sand Mix:**

Sand mix shall consist of a uniformly blended mixture of sand and Portland cement and other ingredients approved for use in high strength mortars. Sand mix shall conform to the latest revision of ASTM C387 and shall come in 80 lb. bags. Sand mix shall be manufactured by Quikrete or approved equal.

V. **Ram-Nek Plastic Gasket Sealant, Or Equal (Group 3-Items 0050-0060):**

All reinforced concrete arch pipe shall be joined by a cold applied preformed plastic sealing compound, conforming in all respects to federal specification SS-S-00210 (GSA-FSS). This material shall be Ram-Nek, or approved equal, and shall be applied in accordance with the tables listed in the proposal guide.

VI. **Pipe Plug (Group 4-Items 0070-0080):**

Pipe plug shall conform to the latest revision of ASTM C109/C109M and ASTM C191. Pipe shall be cementitious high strength hydraulic plus compound used to plug holes in pipes and manholes. Pipe plug shall harden in 3-5 minutes. Pipe plug shall come in a 50 lb. pail. Pipe plug compound shall be manufactured by Quikrete Co. or an approved equal.

VII. **Manhole Waterproofing Material (Group 5-Items 0090-0100):**

Manhole waterproofing coating material shall be a two (2) component product consisting of Portland cement, finely graded minerals fillers, and chemical additives of which chemically neutralizes and seals from within in the form of a pre-mixed power. Manhole waterproofing coating material shall be of the Drycon Brand which is manufactured by IPA Systems, Inc. And come in 50 lb. bags.

VIII. **Filter Cloth (Group 6-Items 0115-0130):**

Filter cloth shall be non-woven fabric composed of polypropylene filaments which are formed into a stable network such that filaments retain their relative position. The fabric is inert to biological degradation and naturally encountered chemicals, alkalis, and acids. Filter cloth shall be Mirafi 140NL or an approved equal. The product shall conform to the typical property values in the following table:

<b>Fabric Property</b>	<b>Test Method</b>	<b>Typical Value (Unit)</b>
Weight	ASTM D-3776	3.5 oz./s.y.
Grab Tensile Strength	ASTM D-4632	100 lb.
Grab Tensile Elongation	ASTM D-4632	50 percent
Burst Strength	ASTM D-3786 (1)	200 psi
Puncture Resistance	ASTM D-3787 (2)	55 lb.
Equivalent Opening Size	COE CWO2215 (3)	U.S. standard sieve 70-100
Permeability, K	ASTM D4491 (4)	0.3 cm/sec
Water Flow Rate	ASTM D-4491	180 gpm/sf

- (1) Diaphragm bursting tester
- (2) Tension testing machine with ring clamp; steel ball replaced with a 5/16 inch diameter solid cylinder centered within the ring clamp (f).
- (3) Corps of engineers test procedure
- (4) 5cm constant head method

IX. **Wooden pallets:**

Wooden pallets shall be used in the transport and delivery of sand, mortar, gravel, and Portland cement mixes.

**Note:** This item shall be applied to each contract if the bid is awarded on a split basis.

X. **Geogrid:**

Geogrid shall conform to ASTM D4759-02, ASTM D6637-10, ASTM D7737, ASTM D7748-12, ASTM D5818, ASTM D6637, and ASTM D4355-05 standards. Geogrid shall be Tensar's Biaxial Geogrid BX1200 or an approved equal.

DATE: 7/19/2017

BID NO.: 50-00120241

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 1

**JEFFERSON PARISH**

PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

BUYER: DREAMEY@jeffparish.net

**BIDS WILL BE RECEIVED IN THE WEST BANK PURCHASING DEPT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 8/03/2017 AND PUBLICLY OPENED THEREAFTER.**

For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only. All bids will be publicly opened at the West Bank location.

At no charge, bidders may also submit via Jefferson Parish's electronic procurement page by visiting [www.jeffparishbids.net](http://www.jeffparishbids.net) to register for this free site. Additional instructions are included in the text box highlighting electronic procurement.

**LATE BIDS WILL NOT BE ACCEPTED**

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

**NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.**

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

**THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS**

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

**Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)**

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

A corporate resolution or written evidence of the individual signing the bid having such authority must be submitted with the bid. Failure to comply will cause bid to be rejected. For corporate entities, such written evidence may be a printout of the Louisiana Secretary of State's website listing the signatory as an officer. Such printout shall be included with the bid submission. Bids submitted by Owners or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. This documentation must be submitted with the bid. Failure to do so will result in bid rejection.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

### INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

**A. AWARD OF CONTRACT:** JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. SPLIT AWARDS MADE TO SEVERAL VENDORS WILL ONLY BE GRANTED TO THOSE DEEMED RESPONSIVE AND RESPONSIBLE.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

**PROTESTS:** Only those vendors that submitted a bid in response to this solicitation may submit a protest in writing to the Director of the Purchasing within 48 hours of bid opening. The Purchasing Director will review it in connection with the Parish Attorney's Office which will then respond in writing as soon as possible.

**PREFERENCE:** Unless federal funding is directly spent by Jefferson Parish for this purchase, preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA – R.S. 38:2251-2261"

**B. USE OF BRAND NAMES AND STOCK NUMBERS:** Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

**C. CANCELLATION OF CONTRACT:** JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns 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 Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

**D. PRICES:** Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

**IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS**

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at [www.jeffparishbids.net](http://www.jeffparishbids.net) to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

**ADDITIONAL REQUIREMENTS FOR THIS BID**

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE  
CORRESPONDING INSTRUCTIONS BELOW.

**10,12,13,15**

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached "insurance requirements" sheet. All bidders must comply with the instructions in this sheet. Failure to comply will cause bid to be rejected.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required** in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.
17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment"). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owned on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session – Louisiana Revised Statute 47:301(8)(c). Owner will furnish contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

DATE: 7/19/2017

Page: 5

BID NO.: 50-00120241

**BID FORM**  
Non Public Works

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES \_\_\_\_\_ NO ✓

MAXIMUM ESCALATION PERCENTAGE REQUESTED \_\_\_\_\_ %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF \_\_\_\_\_

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

**DELIVERY: FOB JEFFERSON PARISH**

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

Stock - 2 weeks

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) \_\_\_\_\_

**THIS SECTION MUST BE COMPLETED BY BIDDER:**

FIRM NAME: Ferguson Enterprises

DBA Louisiana Utilities Supply  
901 S Labarre Rd, Suite 208  
Metairie LA 70001

ADDRESS: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

TELEPHONE: (504) 834-1106 FAX: (504) 831-4179

EMAIL ADDRESS: Cathy.McCarthy@ferguson.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$ 86,326.86

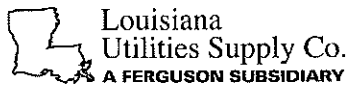
AUTHORIZED SIGNATURE: Cathy A. McCarthy

TITLE: Branch Manager

Cathy A. McCarthy  
Printed Name

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.



LUSCO - NEW ORLEANS #1222  
901 S. LABARRE  
SUITE 206  
METAIRIE, LA 70001-5966  
Phone: 504-834-1106  
Fax: 504-831-4179

Deliver To: MARK MORRIS  
From: Katje Elise Toups  
Comments:

09:26:24 JUL 31 2017

Page 1 of 1

LUSCO - NEW ORLEANS #1221

Price Quotation

Phone: 504-834-1106

Fax: 504-831-4179

**Bid No:** B259512  
**Bid Date:** 07/31/17  
**Quoted By:** KET

**Cust Phone:** 504-736-6763  
**Terms:** NET 10TH PROX

**Customer:** JEFFERSON PARISH  
4901 JEFFERSON HWY  
EAST BANK WAREHOUSE PURCH  
JEFFERSON, LA 70121

**Ship To:** JEFFERSON PARISH  
4901 JEFFERSON HWY  
EAST BANK WAREHOUSE PURCH  
JEFFERSON, LA 70121

**Cust PO#:**

**Job Name:** MIXES

Item	Description	Quantity	Net Price	UM	Total
Q112494	94# PORTLAND CMNT	218	10.720	EA	2336.96
SGM80	80# BAG GRAVEL MIX	8000	3.880	EA	31040.00
Q110380	80# BAG SAND MIX	350	3.950	EA	1382.50
Q110280	80# MORTAR MIX	3500	4.700	EA	16450.00
PSHYD5GALFAS	HYDRA PLUG CMNT FAST 50# PAIL RED.	560	30.320	EA	16979.20
T140N125360	MIRAFI 140N N/WOV 12.5X360 500 SY	20000	0.470	SY	9400.00
TFF3360	3X360 FLTR FAB 120 SY	12	59.000	EA	708.00
T140N15360	MIRAFI 140N N/WOV 15X360 600SY	6000	0.470	SY	2820.00
SSBX12239	GEOGRID 13.1 X 164 X 239 *Z	4780	1.090	SY	5210.20

**Net Total:** \$86326.86  
**Tax:** \$0.00  
**Freight:** \$0.00  
**Total:** \$86326.86

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at [http://wolseleyna.com/terms\\_conditionsSale.html](http://wolseleyna.com/terms_conditionsSale.html).  
Govt Buyers: All items are open market unless noted otherwise.

**LEAD LAW WARNING:** It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

## INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00120241

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			TWO YEAR CONTRACT FOR MISCELLANEOUS PIPELINE MAINTENANCE ITEMS FOR JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS - DRAINAGE.		
1	218.00	BG	0010 Portland Cement 94 lb. bag, 1 cu.ft. bag	# 10.72	\$ 2,336.96
2	8,000.00	BG	0020 Gravel Mix (80 lb. bags)	# 3.88	\$ 31,040.00
3	350.00	BG	0030 Sand Mix (80 lb. bags)	# 3.95	\$ 1,382.50
4	3,500.00	BG	0040 Mortor Mix (80 lb. bags)	# 4.70	\$ 16,458.00
5	1,800.00	FT	0050 Ram-Nek Plastic Sealant - 1.5 70 ft. per box	NO BID	Ø
6	6,000.00	FT	0060 Ram-Nec Plastic Sealant 2.00 in. 35 ft. per box	NO BID	Ø
7	560.00	PL	0070 Pipe Plugs (50 lb. pails)	# 30.32	\$ 16,979.20
8	4,000.00	PL	0080 Pipe Plug 10 lb. Pail W/Handle	NO BID	Ø
9	85.00	BG	0090 Drycon Manhole Waterproofing Coating MMaterial 50 lb. bag  White color	NO BID	Ø
10	45.00	BG	0100 Drycon Manhole Water Proofing Coating Material 50 lb. bag  Natural Gray Color	NO BID	Ø
11	40.00	ROLL	0110 Filter Cloth 12ft. 6in. Wide x 360 ft. Long	# 235.00 pr roll	\$ 9,400.00
12	12.00	ROLL	0120 Filter CLoth 3 ft. Wide x 360 ft. Long	# 59.00 pr roll	\$ 708.00
13	10.00	ROLL	0130 Filter Cloth 15 ft. Wide x 360 ft. Long	# 282.00 pr roll	\$ 2,820.00

Page 7

SEALED BID

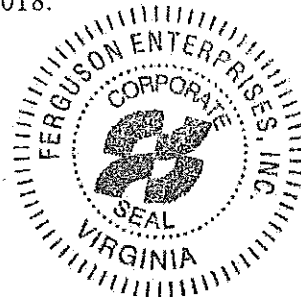
BID NO.: 50-00120241

[illegible]

**SECRETARIAL CERTIFICATE  
OF  
AUTHORIZATION**

The undersigned Assistant Secretary of Ferguson Enterprises, Inc., a Virginia corporation (the "Corporation"), hereby certifies that: i) certain of the Corporation's facilities in the State of Louisiana are doing business as Louisiana Utilities Supply Company and ii) Cathy McCarthy is the Branch Manager in the New Orleans, Louisiana area and iii) that the resolutions adopted by the Corporation's Board of Directors effective July 31, 2014, duly authorize certain of the Corporation's officers, including the Assistant Secretary, to designate, and I hereby do so designate Cathy McCarthy as an authorized representative of the Corporation to act for and on behalf of the Corporation to prepare and submit bids and proposals, to enter into contracts, agreements or other documents, and to execute such documents and undertake all such acts as may be deemed in the best interest of the Corporation, including the execution of bonds and in doing so, to contractually bind the Corporation. Unless withdrawn sooner, this certification of authorization shall be effective until July 31, 2018.

Dated: July 31, 2017



**FERGUSON ENTERPRISES, INC.**

By:   
David N. Meeker, Assistant Secretary

Commonwealth of Virginia   )  
  )  
City of Newport News         )

Sworn to subscribed and acknowledged before me this 31st day of July, 2017, by David N. Meeker, personally known to me, in his capacity as Assistant Secretary of Ferguson Enterprises, Inc., a Virginia corporation, on behalf of such corporation.

  
Notary - Jenifer Ann Cloherty



My commission expires: August 31, 2020

## **CORPORATE RESOLUTION**

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF  
\_\_\_\_\_  
INCORPORATED.

AT THE MEETING OF DIRECTORS OF \_\_\_\_\_  
INCORPORATED, DULY NOTICED AND HELD ON \_\_\_\_\_,  
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT  
WAS:

RESOLVED THAT \_\_\_\_\_, BE AND IS HEREBY  
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-  
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON  
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS  
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,  
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE  
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,  
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES  
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS  
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING  
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-  
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE  
A TRUE AND CORRECT COPY OF AN  
EXCERPT OF THE MINUTES OF THE ABOVE  
DATED MEETING OF THE BOARD OF  
DIRECTORS OF SAID CORPORATION, AND  
THE SAME HAS NOT BEEN REVOKED OR  
RESCINDED.

\_\_\_\_\_  
**SECRETARY-TREASURER**

\_\_\_\_\_  
**DATE**

## **STANDARD INSURANCE REQUIREMENTS – PUBLICLY ADVERTISED BIDS**

All required insurance under this bid shall conform to Jefferson Parish Resolution No. 113646 or No. 113647, as applicable. Contractors may not commence any work under any ensuing contract unless and until all required insurance and associated evidentiary requirements thereto have been met, along with any additional specifications contained in the advertised bid. Except as where otherwise precluded by law, the Parish Attorney or his designee, with the concurrence of the Director of Risk Management or his designee, may agree on a case-by-case basis, to deviate from Jefferson Parish's standard insurance requirements, as provided in this Section. Vendors requesting deviation therefrom shall submit such requests in writing, along with compelling substantiation, to the Purchasing Department prior to the bid's due date. Any changes to the insurance requirements will be reflected in the bid specifications and addenda. Prior to contract execution and at all times thereafter during the term of such contract, contractors must provide and continuously maintain all coverages as required by the foregoing Resolutions, and the contract documents. Failure to do so shall be grounds for suspension, discontinuation or termination of the contract.

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For bidding purposes, bidders must submit with bid submission a current (valid) insurance certificate evidencing the required coverages. Failure to comply will cause bid to be rejected. The current insurance certificate will be used for proof of insurance at time of evaluation. Thereafter, and prior to contract execution, the low bidder will be required to provide final insurance certificates to the Parish which shall name the Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council as additional insureds regarding negligence by the contractor for the Commercial General Liability, Workmen's Compensation Insurance and the Comprehensive Automobile Liability policies. Additionally, said certificates should reflect the name of the Parish Department receiving goods and services and reference the respective Jefferson Parish bid number.

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### **JEFFERSON PARISH REQUIRED STANDARD INSURANCE**

#### **☒ WORKER'S COMPENSATION INSURANCE**

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

**Note:** If your company is not required by law to carry workmen's compensation insurance, i.e. not a Louisiana company, sole employee of the company, then bidders must request a workmen's compensation insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

☒ **COMMERCIAL GENERAL LIABILITY**

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

☒ **COMPREHENSIVE AUTOMOBILE LIABILITY**

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.  
Property Damage Liability \$1,000,000.00 each occurrence.

**Note:** This category may be omitted if bidders do not/will not utilize company vehicles for the project or do not possess company vehicles. Bidder must request an automobile insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

**DEDUCTIBLES**

No insurance required shall include a deductible not greater than \$10,000.00. The cost of the deductible shall be borne by the contractor.

**NOTE:** If the vendor requires a change in deductibles, the request must be submitted in writing to the Purchasing Department prior to the due date of the bid. Such request shall be reviewed by the Parish Attorney's Office with the concurrence of the Director of Risk Management.

**UMBRELLA LIABILITY COVERAGE**

An umbrella policy or excess may be used to meet minimum requirements.

**FOR CONSTRUCTION AND RENOVATION PROJECTS:**

The following are required unless otherwise specified in the bid. Such insurance is due upon contract execution.

**1) OWNER'S PROTECTIVE LIABILITY**

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

**2) BUILDER'S RISK INSURANCE**

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.

## **Non-Public Works Bid Affidavit Instructions**

- Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.
- Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.
- Affidavit must be notarized or the affidavit will not be accepted.
- Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.
- Affiant **MUST** select either A or B when required or the affidavit will not be accepted.
- Affiants who select choice A must include an attachment or the affidavit will not be accepted.
- If both choice A and B are selected, the affidavit will not be accepted.
- Affidavit marked N/A will not be accepted.
- It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.

*Instruction sheet may be omitted when submitting the affidavit*

Non-Public Works Bid

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF Jefferson

BEFORE ME, the undersigned authority, personally came and appeared: Cathy A  
McCarthy, (Affiant) who after being by me duly sworn, deposed and said that  
he/she is the fully authorized Salesperson of Ferguson Ent DBA Louisiana  
Utilities Supply Co (Entity),  
the party who submitted a bid in response to Bid Number 5000120241 to the Parish of  
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required  
attachment):

Choice A \_\_\_\_\_ Attached hereto is a list of all campaign contributions, including  
the date and amount of each contribution, made to current or  
former elected officials of the Parish of Jefferson by Entity,  
Affiant, and/or officers, directors and owners, including  
employees, owning 25% or more of the Entity during the two-year  
period immediately preceding the date of this affidavit or the  
current term of the elected official, whichever is greater. Further,  
Entity, Affiant, and/or Entity Owners have not made any  
contributions to or in support of current or former members of the  
Jefferson Parish Council or the Jefferson Parish President through  
or in the name of another person or legal entity, either directly or  
indirectly.

Choice B ☒ there are NO campaign contributions made which would require  
disclosure under Choice A of this section.

Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

**Choice B** ☒ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

*[The remainder of this page is intentionally left blank.]*

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Cathy A. McCarthy  
Signature of Affiant

Cathy A. McCarthy  
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 2<sup>nd</sup> DAY OF August, 2017

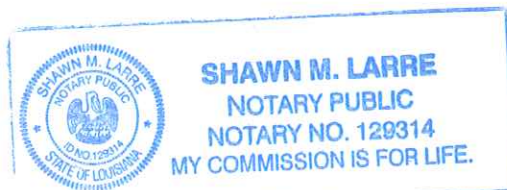
[Signature]

Notary Public

Shawn M. Larre  
Printed Name of Notary

129314  
Notary/Bar Roll Number

My commission expires At Death.





# JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni  
Parish President

Brenda C. Patel  
Director

## **CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES**

The East bank Office of Purchasing is now open! We are located in the Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Suite 404, Jefferson, LA 70123. Bidders may submit bid responses at this location, pending authorization in each bid package. **Bidders should carefully read and must respond accordingly per the requirements of the bid packages. NOTE: Bidders submitting bids on the day of bid opening, bidders must submit at the West Bank location only.**

### **Other Changes Continued:**

- For all advertised sealed bids, written evidence of signature authority must be included with bid submission.
- Current W9 Forms and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, a current W-9 form must be supplied upon contract execution, should you be awarded a contract and/or issued a purchase order.
- Upon contract execution, successful bidder must produce final insurance certificates per standard Jefferson Parish insurance requirements. Proof of insurance is required for bidding purposes. Bidders must read the insurance requirements attachment included in each bid package for specific instructions.

**Bidders should reference the "Additional Requirements" section of the bid instructions and/or the "Important Notice to Bidders" included in the bid package for specific requirements to respond accordingly.**

For more information, please call Jefferson Parish Purchasing at 504-364-2678.



# CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 2

DATE (MM/DD/YYYY)  
06/20/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Willis of Maryland, Inc. c/o 26 Century Blvd. P. O. Box 305191 Nashville, TN 37230-5191	<b>CONTACT NAME:</b> PHONE (A/C NO, EXT): 610-964-8700 FAX (A/C NO): 610-254-5600 E-MAIL ADDRESS: certificates@willis.com
	<b>INSURER(S) AFFORDING COVERAGE</b> INSURER A: National Union Fire Ins. Co. of Pittsburgh 19445-002 INSURER B: National Union Fire Ins. Co. of Pittsburgh 19445-000 INSURER C: National Union Fire Ins. Co. of Pittsburgh 19445-001 INSURER D: New Hampshire Insurance Company 23841-001 INSURER E: INSURER F:
<b>INSURED</b> Ferguson Enterprises, Inc. and Subsidiaries (See Attached Named Insured Schedule) 12500 Jefferson Avenue Newport News, VA 23602	<b>NAIC#</b>

**COVERAGES**

CERTIFICATE NUMBER: 25533776

REVISION NUMBER: See Remarks

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:	Y		GL712-9880	5/1/2017	5/1/2018	EACH OCCURRENCE	\$ 2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 2,000,000
							GENERAL AGGREGATE	\$ 5,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
B	AUTOMOBILE LIABILITY	Y		AOS CA1921927	5/1/2017	5/1/2018	COMBINED SINGLE LIMIT (Ea accident)	\$ 5,000,000
B	<input checked="" type="checkbox"/> ANY AUTO	Y		MA CA1921928	5/1/2017	5/1/2018	BODILY INJURY (Per person)	\$
C	<input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> Self-Insured	Y		VA CA1921929	5/1/2017	5/1/2018	BODILY INJURY (Per accident)	\$
	<input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> Physical Damage						PROPERTY DAMAGE (Per accident)	\$
								\$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	Y		12318770	5/1/2017	5/1/2018	EACH OCCURRENCE	\$ 2,000,000
							AGGREGATE	\$ 2,000,000
								\$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WC023102516	5/1/2017	5/1/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 2,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 2,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

THIS VOIDS AND REPLACES PREVIOUSLY ISSUED CERTIFICATE DATED: 4/12/2017 WITH ID: 25423358

Re: Resolution No. 125223

See Attached for Additional Workers' Compensation Policies:

The Parish of Jefferson, its Districts, Departments and Agencies under the direction of the Parish President and Parish Council are included as Additional Insureds under General Liability and Auto

**CERTIFICATE HOLDER****CANCELLATION**

The Parish of Jefferson, its Districts, Departments  
Agencies under the direction of the Parish -  
President and Parish Council  
Engineering Department  
1221 Elmwood Park Blvd., Ste. 802  
Jefferson, LA 70123

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Coll: 5090668 Tpl: 2142936 Cert: 25533776 © 1988-2015 ACORD CORPORATION. All rights reserved.

AGENCY CUSTOMER ID: 031419

LOC#: \_\_\_\_\_



## ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY Willis of Maryland, Inc.		NAMED INSURED Ferguson Enterprises, Inc. and Subsidiaries (See Attached Named Insured Schedule) 12500 Jefferson Avenue Newport News, VA 23602
POLICY NUMBER See First Page		
CARRIER See First Page	NAIC CODE	EFFECTIVE DATE: See First Page

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,  
FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

Liability as required by written contract but only with respect to liability arising out of Named Insured's operations.

Umbrella follows form.

## ADDITIONAL COVERAGE SCHEDULE

COVERAGE	LIMITS
<b>POLICY TYPE:</b> Workers' Compensation & Employers Liability- ME <b>CARRIER:</b> New Hampshire Insurance Company <b>POLICY TERM:</b> 05/01/2017 - 05/01/2018 <b>POLICY NUMBER:</b> WC023102515	<b>Per Statute</b> <b>E.L. Each Accident:</b> \$2,000,000 <b>E.L. Disease-Policy Limit:</b> \$2,000,000 <b>E.L. Disease-Each Employee:</b> \$2,000,000
<b>POLICY TYPE:</b> Workers' Compensation & Employers Liability - CA <b>CARRIER:</b> American Home Assurance Company <b>POLICY TERM:</b> 05/01/2017 - 05/01/2018 <b>POLICY NUMBER:</b> WC023102514	<b>Per Statute</b> <b>E.L. Each Accident:</b> \$2,000,000 <b>E.L. Disease-Policy Limit:</b> \$2,000,000 <b>E.L. Disease-Each Employee:</b> \$2,000,000
<b>POLICY TYPE:</b> Workers' Compensation & Employers Liability - FL <b>CARRIER:</b> Illinois National Insurance Company <b>POLICY TERM:</b> 05/01/2017 - 05/01/2018 <b>POLICY NUMBER:</b> WC023102513	<b>Per Statute</b> <b>E.L. Each Accident:</b> \$2,000,000 <b>E.L. Disease-Policy Limit:</b> \$2,000,000 <b>E.L. Disease-Each Employee:</b> \$2,000,000
<b>POLICY TYPE:</b> Workers' Compensation & Employers Liability - MA & WI <b>CARRIER:</b> New Hampshire Insurance Company <b>POLICY TERM:</b> 05/01/2017 - 05/01/2018 <b>POLICY NUMBER:</b> WC023102518	<b>Per Statute</b> <b>E.L. Each Accident:</b> \$2,000,000 <b>E.L. Disease-Policy Limit:</b> \$2,000,000 <b>E.L. Disease-Each Employee:</b> \$2,000,000
<b>POLICY TYPE:</b> Workers' Compensation & Employers Liability - AK,AZ,IL,KY,NC,NH,NJ,PA,UT,VA,VT <b>CARRIER:</b> New Hampshire Insurance Company <b>POLICY TERM:</b> 05/01/2017 - 05/01/2018 <b>POLICY NUMBER:</b> WC023102517	<b>Per Statute</b> <b>E.L. Each Accident:</b> \$2,000,000 <b>E.L. Disease-Policy Limit:</b> \$2,000,000 <b>E.L. Disease-Each Employee:</b> \$2,000,000

**Ferguson Enterprises, Inc. and Subsidiaries.  
List of Named Insureds**

Air Cold Supply	E & J Plumbing & Heating Supply Co.
Air Cold Supply/Webb Distributors	Economy Plumbing and Heating Supply Co.
Alamo Pipe & Supply	Endries International, Inc.
Alaska Pipe & Supply	Energy & Process Corporation
Andrews Lighting Gallery, Inc. (dba Andrews Lighting & Hardware Gallery)	Equarius, Inc. dba Equarius Waterworks, Meter & Automation Group
Arkansas Supply, Inc.	Factory Direct Appliance
Ar-Jay Building Products, Inc. (dba The Ar-Jay Center)	Ferguson Bath Kitchen and Lighting Gallery
Atlantic American Fire Equipment Company	Ferguson Enterprises IV, Inc.
Arkansas Supply	Ferguson Enterprises of Montana, Inc.
The Bath + Beyond	Ferguson Enterprises of Virginia, Inc.
Bruce-Rogers Company	Ferguson Enterprises V, Inc.
Build.com, Inc.	Ferguson Enterprises, Inc.
Builders Appliance Center, LLC	Ferguson Enterprises, Inc. dba WPCC Forwarding
CAL-STEAM, a Wolseley Company	Ferguson Enterprises, Inc. A Corp of Virginia
Camellia Valley Supply	Ferguson Enterprises NY – Metro, Inc.
Castle Supply Company, Inc.	Ferguson Fire & Fabrication, Inc.
CastleNorth	Ferguson Fire & Fabrication, Inc. (fka Action Fire Fab & Supply, Inc.)
Central Pipe & Supply	Ferguson Fire & Fabrication, Inc. (fka Sierra Craft, Inc.)
CFP	Ferguson Full Service Supply
Chadwick	Ferguson Heating & Cooling
City Lights Design Showroom	Ferguson Holdings, Inc.
Clawfoot Supply, LLC	Ferguson Hospitality Sales
Clayton Group, Inc.	Ferguson Industrial Plastics and Pump Division
Clayton International, LLC	Ferguson Integrated Systems Division, Inc.
Cline Contract Sales	Ferguson Intermountain Piping
Colgan Cabinets	Ferguson International
Colgan Distributors	Ferguson Process Services
Crow Company	Ferguson Valve & Automation
Custom Lighting Incorporated	Ferguson Waterworks
Custom Hardware and Accessories, Inc.	Ferguson Waterworks - Midwest Pipe
D & C Plumbing & Heating Supply	Ferguson Waterworks - Municipal Pipe
Davis & Warshow, Inc.	Ferguson Waterworks - Red Hed
Davidson Electric Wholesale Supply	Ferguson Waterworks EPPCO
The Davidson Corporation, a Delaware Corporation	Ferguson Waterworks International
The Davidson Group Companies, Inc	Frischkorn, Inc.
Davidson Group Leasing	Gabriel Scientific & Machine, LLC
Davidson Pipe Company Inc., a New York Corporation	Galleria Bath & Kitchen Showplace
Davidson Pipe Supply Company, Inc.	Gilmour Supply Company, Inc.
Davies Water	Global HVAC Distributors, Inc.
Dealernet, LLC dba Dealernet	Ferguson Enterprises, Inc. dba Groeniger
Decorative Product Source, Inc.	

**Ferguson Enterprises, Inc. and Subsidiaries.  
List of Named Insureds**

& Company	Record Supply Company
Gulf Refrigeration Supply	Redlon & Johnson
High Country Plumbing Supply	Reese Kitchen, Bath & Lighting Gallery
Home Equipment Company, Inc.	RenWes Sales
HP Products Corporation	S.G. Supply Company
HP Logistics, Inc.	
Indiana Plumbing Supply Co., Inc.	S.G. Supply Company dba SG Supply Co.,
Industrial Hub of the Carolinas	a Ferguson Enterprise
J&G Products	Sierra Craft, Inc.
J.D. Daddario Company	Signature Hardware
Joseph G. Pollard Co., Inc.	Ship-Pac, Inc. d/b/a HP Products Corp.
Kandall Fabricating	SOS Sales
Karl's Appliances, A Ferguson Enterprise	Specialty Pipe & Tube, Inc.
Lane Piping Co.	Specialty Pipe & Tube of Texas, Inc.
Lawrence Plumbing Supply Co.	Stock Loan Services LLC
Lighting Unlimited, LLC	Summer & Dunbar
Lincoln Products	Supply North Central Group
Linwood Pipe and Supply	Tarpon Wholesale Supplies
Living Direct, Inc.	T & A Valve Industries, Inc.
Louisiana Utilities Supply Company	The Parnell-Martin Companies LLC
Louisiana Chemical Pipe, Valve & Fitting, Inc. dba Wolseley Industrial Group	The Plumbers Warehouse
LUSCO	The Plumbing Source Inc.
Lyon Conklin & Co., Inc.	The Stock Market
Mastercraft Cabinets	Tubeco Fabrication, Inc.
Matera Paper Company, Inc.	Underground Pipe & Valve Inc.
McFarland Supply Co., Inc.	United Automatic
Michigan Meter Technology	Water Works Supplies
Michigan Pipe & Valve-Flint, Inc.	Webb Distributors
Michigan Pipe & Valve-Lansing, Inc.	Western Air Systems and Controls, Inc.
Monotube Pile Corporation	Westfield Lighting
Northern Water Works Supply, Inc.	WIA of California, Inc.
Onda-Lay Pipe and Rental, Inc.	Wolseley Industrial Group
Page's Appliances	Wolseley Industrial Plastics
Palermo Supply	Wolseley Investments Acquisitions, Inc.
Park Supply	Wolseley Investments, Inc.
PCS Industries d/b/a HP Products Corp.	Wolseley NA Construction Services, LLC
Pipe Products	Wolseley North America, Inc.
Plumbing Décor	Wolseley North American Consulting, LLC
Plumb Source	Wolseley North American Services, Inc.
Powell Pipe & Supply Company	WPCC Forwarding
Power Equipment Direct Inc.	
P.V. Sullivan Supply Co., Inc.	
R Supply Company	
Ramapo Wholesalers	

# Mirafi® 140NL



Mirafi® 140NL is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 140NL is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® 140NL meets AASHTO M288-06 for Elongation > 50%.

TenCate Geosynthetics Americas is accredited by a2La (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). NTPEP Number: GTX-2012-01-043

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	90 (401)	90 (401)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	40 (178)	40 (178)
CBR Puncture Strength	ASTM D6241	lbs (N)	250 (1113)	
Apparent Opening Size (AOS) <sup>1</sup>	ASTM D4751	U.S. Sieve (mm)	60 (0.25)	
Permittivity	ASTM D4491	sec <sup>-1</sup>	2.0	
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	145 (5907)	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

<sup>1</sup> ASTM D4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Unit	Typical Value	
Roll Dimensions (width x length)	ft (m)	12.5 x 360 (3.8 x 110)	15 x 360 (4.5 x 110)
Roll Area	yd <sup>2</sup> (m <sup>2</sup> )	500 (418)	600 (502)
Estimated Roll Weight	lb (kg)	133 (60)	160 (70)

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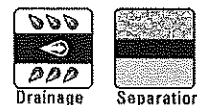
Tel 706 693 2226  
Tel 888 795 0808

Fax 706 693 4400  
[www.tencate.com](http://www.tencate.com)

FGS000360  
ETQR51



# Mirafi® 135N



Mirafi® 135N is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 135N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by a2La (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	80 (356)	80 (356)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	30 (134)	30 (134)
CBR Puncture Strength	ASTM D6241	lbs (N)	175 (79)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	50 (0.30)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec <sup>-1</sup>	2.1	
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	155 (6315)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

Physical Properties	Unit	Roll Sizes	
Roll Dimensions (width x length)	ft (m)	12.5 x 360 (3.8 x 110)	15 x 360 (4.5 x 110)
Roll Area	yd <sup>2</sup> (m <sup>2</sup> )	500 (418)	600 (502)

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FGS000358  
ETQR43





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Phone: 800-TENSAR-1  
www.tensarcorp.com

## Product Specification - Biaxial Geogrid BX1200

*Tensar International Corporation reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.*

**Product Type:** Integrally Formed Biaxial Geogrid  
**Polymer:** Polypropylene  
**Load Transfer Mechanism:** Positive Mechanical Interlock  
**Primary Applications:** Spectra System (Base Reinforcement, Subgrade Improvement)

### Product Properties

Index Properties	Units	MD Values <sup>1</sup>	XMD Values <sup>1</sup>
▪ Aperture Dimensions <sup>2</sup>	mm (in)	25 (1.0)	33 (1.3)
▪ Minimum Rib Thickness <sup>2</sup>	mm (in)	1.27 (0.05)	1.27 (0.05)
▪ Tensile Strength @ 2% Strain <sup>3</sup>	kN/m (lb/ft)	6.0 (410)	9.0 (620)
▪ Tensile Strength @ 5% Strain <sup>3</sup>	kN/m (lb/ft)	11.8 (810)	19.6 (1,340)
▪ Ultimate Tensile Strength <sup>3</sup>	kN/m (lb/ft)	19.2 (1,310)	28.8 (1,970)
<b>Structural Integrity</b>			
▪ Junction Efficiency <sup>4</sup>	%	93	
▪ Flexural Stiffness <sup>5</sup>	mg-cm	750,000	
▪ Aperture Stability <sup>6</sup>	m-N/deg	0.65	
<b>Durability</b>			
▪ Resistance to Installation Damage <sup>7</sup>	%SC / %SW / %GP	95 / 93 / 90	
▪ Resistance to Long Term Degradation <sup>8</sup>	%	100	
▪ Resistance to UV Degradation <sup>9</sup>	%	100	

### Dimensions and Delivery

The biaxial geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 3.0 meters (9.8 feet) or 4.0 meters (13.1 feet) in width and 50.0 meters (164 feet) in length. A typical truckload quantity is 160 to 210 rolls.

### Notes

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.
2. Nominal dimensions.
3. Determined in accordance with ASTM D6637-10 Method A.
4. Load transfer capability determined in accordance with ASTM D7737-11.
5. Resistance to bending force determined in accordance with ASTM D7748-12, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs, and of length sufficiently long to enable measurement of the overhang dimension.
6. Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with GRI GG9.
7. Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818 and load capacity shall be determined in accordance with ASTM D6637.
8. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
9. Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

Tensar International Corporation warrants that at the time of delivery the geogrid furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby excluded. If the geogrid does not meet the specifications on this page and Tensar is notified prior to installation, Tensar will replace the geogrid at no cost to the customer.

This product specification supersedes all prior specifications for the product described above and is not applicable to any products shipped prior to February 1, 2013.



## PORTLAND CEMENT

PRODUCT NO. 1124-31, -47, -94

### DIVISION 3

Cement  
03 05 00

#### PRODUCT DESCRIPTION

QUIKRETE® Portland Cement is a high quality Portland cement meeting ASTM C 150 Type I.

#### PRODUCT USE

QUIKRETE® Portland Cement is used for making high strength repair mortars, concrete and for any other applications requiring Type I Portland cement. In many locations the product also meets ASTM C 150 Type II. Consult your supplying plant to confirm compliance with ASTM C 150 Type II.

#### SIZES

- QUIKRETE® Portland Cement
  - 31 lb (14 kg) bags
  - 47 lb (21.3 kg) bags
  - 94 lb (42.6 kg) bags
  - 40 kg (88 lb) bags
  - 42 kg (93 lb) bags

#### YIELD

- Yield depends on application. For concrete mixes: Five to six 94 lb (42.6 kg) bags of QUIKRETE® Portland Cement is typically used with appropriate proportions of sand and gravel to produce 1 cu. yd. (0.8 m<sup>3</sup>) of concrete.

#### TECHNICAL DATA

QUIKRETE® Portland Cement complies with ASTM C 150 Type I and in many locations also complies with ASTM C 150 Type II. The product is used in a variety of construction materials. Typical mix designs for some applications are listed below:

##### Concrete Mix

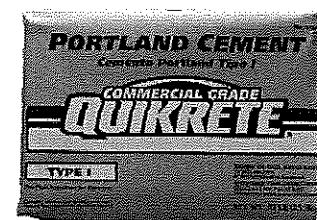
- 1 Part QUIKRETE® Portland Cement
- 2 Parts QUIKRETE® All-Purpose Sand (ASTM C-33)
- 3 Parts QUIKRETE® All-Purpose Gravel (ASTM C-33)

##### Mortar Mix (Type S, per ASTM C-270)

- 1 Part QUIKRETE® Portland Cement
- 1/2 Part QUIKRETE® Hydrated Lime -Type S
- 3-1/2 to 4-1/2 Parts QUIKRETE® Masonry Sand (ASTM C-144)

##### Scratch and Brown Coat Stucco Mix (per ASTM C-926)

- 1 Part QUIKRETE® Portland Cement
- 1/2 Part QUIKRETE® Hydrated Lime (Type S)
- 4-1/2 to 6 Parts QUIKRETE® Washed Plaster Sand (ASTM C-897)



#### INSTALLATION

Installation methods are specific for each type of product.

#### PRECAUTIONS

The following points apply to all products made from Portland cement:

- Protect from freezing for at least 24-48 hr.
- Use the minimum amount of water necessary to achieve the desired consistency. Adding too much water will weaken the product.
- Keep the product damp for several days to obtain proper curing.

#### WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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\* Refer to [www.quikrete.com](http://www.quikrete.com) for the most current technical data, MSDS, and guide specifications



**QUIKRETE®****CEMENT & CONCRETE PRODUCTS™**

## SAND/TOPPING MIX

PRODUCT No. 1103

### DIVISION 3

Concrete Topping  
03 53 00

#### PRODUCT DESCRIPTION

QUIKRETE® Sand/Topping Mix consists of a uniformly blended mixture of Portland cement and commercial grade sands, used for repairing and topping damaged concrete surfaces less than 2" (51 mm) thick.

#### PRODUCT USE

QUIKRETE® Sand/Topping Mix is formulated for placing concrete overlays less than 2" (51 mm) thick. It is also used for patching and leveling steps, walks and floors. Other applications for QUIKRETE® Sand/Topping Mix include:

- Chimney caps
- Large crack repairs
- Thick setting beds for ceramic floor tile
- Filling cores in masonry block or brick

#### SIZES

- QUIKRETE® Sand/Topping Mix –
  - 80 lb (36.3 kg) bags
  - 60 lb (27.2 kg) bags
  - 40 lb (18.1 kg) bags
  - 10 lb (4.5 kg) bags

#### YIELD

- 80 lb (36.3 kg) bag - Approximately 0.66 cu ft (19 L)
- 60 lb (27.2 kg) bag - Approximately 0.5 cu ft (14 L)
- 40 lb (18.1 kg) - Approximately 0.37 cu ft (10 L)

#### TECHNICAL DATA

##### APPLICABLE STANDARDS

ASTM International - ASTM C387 Standard Specification for Packaged, Dry, Combined Materials for Mortar and Concrete

##### PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Sand/Topping Mix exceeds the compressive strength requirements for high strength mortars per ASTM C387. Typical compressive strengths are:

- 3000 psi (20.7 MPa) at 7 days
- 5000 psi (34.5 MPa) at 28 days

#### INSTALLATION

##### SURFACE PREPARATION

When using Sand/Topping Mix to resurface damaged concrete surfaces 1/2" - 2" (12.7 - 51 mm) thick dig a small trench along the edge of the damaged surface so that forms can be set in place level with the old concrete surface. It is important to form a solid base for the new topping.



Remove all broken and loose concrete. Clean the surface thoroughly with QUIKRETE® Concrete & Asphalt Cleaner.

#### ADMIXTURES

For patches less than 1" (25.4 mm) thick, replace part of the mixing water with QUIKRETE® Concrete Acrylic Fortifier #8610 for improved bonding. Add the QUIKRETE® Concrete Acrylic Fortifier directly to the mix at the rate of 3 pt (1.4 L) per 60 lb (27.2 kg) bag or 1/2 gal (1.9 L) per 80 lb (36.3 kg) bag.

#### MIXING

##### NOTE:

- For applications 1" - 2" (25.4 - 51 mm) thick, use specified bonding agent
- For applications less than 1" (25.4 mm) thick, use specified admixture

#### MACHINE MIXING

QUIKRETE® Sand/Topping Mix can be mixed in a barrel type concrete mixer or a mortar mixer. Choose the mixer size most appropriate for the size of the job. Allow at least 1 cu ft (28 L) of mixer capacity for each 80 lb (36.3 kg) bag of QUIKRETE® Sand/Topping Mix to be mixed at one time

- For each 80 lb (36.3 kg) bag of QUIKRETE® Sand/Topping Mix to be mixed, add approximately 8 pt (3.8 L) of fresh water to the mixer
- Turn on the mixer and begin adding bags of Sand/Topping Mix to the mixer
- If the material becomes too difficult to mix, add additional water until a workable mix is obtained

Note - Final water content should be 8 - 12 pt (3.8 - 5.7 L) of water per 80 lb (36.3 kg) bag of Sand/Topping Mix. For other bag sizes, use Table 1 to determine water content.

#### HAND MIXING

- Empty Sand/Topping Mix bags into a suitable mixing container
- For each 80 lb (36.3 kg) bag of mix, add approximately 8 pt (3.8 L) of clean water. Work the mix with a shovel, rake or hoe

**QUIKRETE®****CEMENT & CONCRETE PRODUCTS™**

- Add additional water as needed to obtain a workable plastic-like consistency
- Note - Final water content should be 8 - 12 pt (3.8 - 5.7 L). Be sure all material is wet. Do not leave standing puddles. For other bag sizes, use Table 1 to determine water content.

**TABLE 1 MIX WATER REQUIREMENTS FOR QUIKRETE® SAND/TOPPING MIX**

Package size	Starting water content	Final water content
80 lb (36.3 kg)	8 pt (3.8 L)	8-12 pt (3.8-5.7 L)
60 lb (27.2 kg)	6 pt (2.8 L)	6-9 pt (2.8-4.3 L)
40 lb (18.1 kg)	4 pt (1.9 L)	4-6 pt (1.9-2.8 L)

### APPLICATION

- Using 2 × 4s and stakes, construct a form around the old sidewalk or slab. Use a level to make sure that the forms are set at the correct height and that there is adequate slope for drainage
- If the area to be resurfaced requires topping from 1" - 2" (25.4 - 51 mm) in thickness, first coat the damaged area with QUIKRETE® Concrete Bonding Adhesive (#9902)
- Allow the Bonding Adhesive to dry before proceeding. Concrete Bonding Adhesive should not be used when Sand/Topping Mix contains Acrylic Fortifier
- Place the Sand/Topping Mix onto the damaged area and trowel the surface smooth using a steel finishing trowel or wood float
- Edge using a concrete edging tool if desired
- If the topping is placed over an existing concrete joint, it is important to tool a joint into the Sand/Topping Mix directly over the existing joint
- Use a trowel or jointer to form the joint at least half the depth of the patch

### FINISHING

QUIKRETE® Sand/Topping Mix can be broom finished or hand trowel finished. Power finishing is not recommended. Specialty finishes, such as stamping, adding color or staining, are also acceptable.

### CURING

#### General

Curing is one of the most important steps in the use of Sand/ Topping Mix. Proper curing increases the strength and durability of the repair, and a poor curing job can ruin an otherwise well-done project. Proper water content and temperature are essential for good curing. In near freezing temperatures, the hydration process slows considerably. When weather is too hot, dry or windy, water is lost by evaporation from the repair and hydration stops, resulting in finishing difficulties and cracks. The ideal circumstances for curing are ample moisture and moderate temperature and wind conditions. Curing should start as soon as possible and should continue for a period of 5 days in warm weather at minimum 70°F (21°C) or higher, or for 7 days in colder weather at 50 - 70°F (10 - 21°C).

#### Specific Curing Methods

- QUIKRETE® Acrylic Cure & Seal – Satin Finish (#8730) provides the easiest and most convenient method of curing. Apply by spray, brush

or roller soon after the final finishing operation when the surface is hard. The surface can be damp, but not wet, when applying the curing compound. Complete coverage is essential

- Other methods of providing proper curing include covering the surface with wet burlap, keeping the surface wet with a lawn sprinkler and covering the surface with plastic sheeting or waterproof paper to prevent moisture loss
- If burlap is used, it should be free of chemicals that could weaken or discolor the concrete. New burlap should be washed before use. Place it when the concrete is hard enough to withstand surface damage and sprinkle it periodically to keep the concrete surface continuously moist
- Water curing with lawn sprinklers, nozzles or soaking hoses must be continuous to prevent interruption of the curing process
- Curing with plastic sheets is convenient. They must be laid flat, thoroughly sealed at joints and anchored carefully along edges

### PRECAUTIONS

- Curing compounds should not be applied if rain or temperatures below 50°F (10°C) are expected within 24 hours
- Curing with plastic or burlap can cause patchy discoloration of the repair
- For repairs to colored surfaces, wet curing or the use of QUIKRETE® Acrylic Cure & Seal – Satin Finish (#8730) is recommended
- Do not use curing compounds during late fall on surfaces where de-icers will be used to melt ice and snow. Using curing compounds at that time can prevent proper air curing of the repair, which is necessary to enhance its resistance to damage caused by de-icers
- Protect Sand/Topping Mix from freezing during the first 48 hours. Plastic sheeting and insulation blankets should be used if temperatures are expected to fall below 32°F (0°C)
- Mixes that contain Concrete Acrylic Fortifier do not require extensive curing. No curing is required except in especially hot, dry or windy conditions. Under such conditions, the repair should be moist cured for 24 hours

### WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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\* Refer to [www.quikrete.com](http://www.quikrete.com) for the most current technical data, MSDS, and guide specifications

**QUIKRETE®****CEMENT & CONCRETE PRODUCTS™**

# CONCRETE MIX

**PRODUCT NO. 1101**

## PRODUCT DESCRIPTION

QUIKRETE® Concrete Mix is a pre-blended mixture of cement and aggregates for general structural uses, requiring only the addition of water.

## PRODUCT USE

QUIKRETE® Concrete Mix is designed for pouring concrete 2" (51 mm) thick or more and building or repairing anything out of concrete, including:

- Foundation walls and footings
- Sidewalks, curbs, steps, ramps and walkways
- Appliance and equipment platforms
- Pipe and post footings
- Floor slabs and patios
- Pools, fish pools, stepping stones
- Splashblocks and bird baths
- Riprap & slope protection
- Driveway repairs

## SIZES

- QUIKRETE® Concrete Mix is available in:
  - 40 lb (18.1 kg) bags
  - 60 lb (27.2 kg) bags
  - 80 lb (36.3 kg) bags

## YIELD

- An 80 lb (36.3 kg) bag yields approximately 0.60 cu ft (17 L)
- A 60 lb (27.2 kg) bag yields approximately 0.45 cu ft (12.7 L)
- A 40 lb (18.1 kg) bag yields approximately 0.30 cu ft (8.5 L)

## TECHNICAL DATA

### APPLICABLE STANDARDS

ASTM International - ASTM C387 Standard Specifications for Packaged, Dry, Combined Materials for Mortar and Concrete

### PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Concrete Mix exceeds the compressive strength requirements of ASTM C387, as shown in Table 1.

**TABLE 1 TYPICAL COMPRESSIVE STRENGTH¹****Compressive strength, ASTM C39**

Age	Typical Values
7 days	2500 psi (17.2 MPa)
28 days	4000 psi (27.6 MPa)
Slump Range	2" - 3" (51-76 mm)

¹Tested under laboratory conditions in accordance with ASTM C387

## DIVISION 3

Structural Concrete  
03 31 00



## INSTALLATION PREPARATORY WORK

Stake out the planned area and remove sod or soil to the desired depth. Nail and stake forms securely in place. Tamp and compact the sub-base until firm.

## MACHINE MIXING INSTRUCTIONS

QUIKRETE® Concrete Mix can be mixed in a barrel type concrete mixer or a mortar mixer.

- Choose the mixer size most appropriate for the size of the job to be done
- Allow at least 1 cu ft (28 L) of mixer capacity for each 80 lb (36.3 kg) bag of QUIKRETE® Concrete Mix to be mixed at one time
- For each 80 lb (36.3 kg) bag of QUIKRETE® Concrete Mix to be mixed, add approximately 6 pt (2.8 L) of fresh water to the mixer
- Turn on the mixer and begin adding the concrete to the mixer
- If the material becomes too difficult to mix, add additional water until a workable mix is obtained
- If a slump cone is available, adjust water to achieve a 2" - 3" (51 - 76 mm) slump

Note - Final water content should be approximately 6 - 9 pt (2.8 - 4.3 L) of water per 80 lb (36.3 kg) bag of concrete. For other bag sizes, use Table 2 to determine water content.

## HAND MIXING INSTRUCTIONS

- Empty concrete bags into a suitable mixing container
- For each 80 lb (36.3 kg) bag of mix, add approximately 6 pt (2.8 L) of clean water
- Work the mix with a shovel, rake or hoe and add water as needed until a stiff, moldable consistency is achieved
- Be sure all material is wet
- Do not leave standing puddles

Note - For other bag sizes, use Table 2 to determine water content.

**TABLE 2 MIXING WATER FOR QUIKRETE® CONCRETE MIX**

Package size, lb (kg)	Starting Water Content, pt (L)	Final Water, Content, pt (L)
80 (36.3)	6 (2.8)	6-9 (2.8-4.3)
60 (27.2)	4 (1.9)	4-7 (1.9-3.3)
40 (18.1)	3 (1.4)	3-4.5 (1.4-2.1)

## APPLICATION

### Method for Pouring a Slab

- Dampen the sub-grade before concrete is placed
- Do not leave standing puddles
- Shovel or place concrete into the form; fill to the full depth of the form
- After concrete has been compacted and spread to completely fill the forms without air pockets, strike off and float immediately
- To strike off, use a straight board (screed), moving the edge back and forth with a saw-like motion to smooth the surface
- Use a darby or bull float to float the surface; this levels any ridges and fills voids left by the straight edge
- Cut the concrete away from the forms by running an edging tool or trowel along the forms to compact the slab edges
- Cut 1" (25.4 mm) deep control joints into the slab every 6' - 8' (1.8 - 2.4 m) using a grooving tool
- Allow concrete to stiffen slightly, waiting until all water has evaporated from the surface before troweling or applying a broom finish

Note - For best results, do not overwork the material.

### Method for Setting Fence Posts

- Dig post hole about 3 times the diameter of the post. Hole depth should be 1/3 the overall post height
- Place 6" (152 mm) of dry concrete mix in the bottom of the hole. Position the post, checking that it is level and plumb. Combine concrete mix with water and place into the hole
- When standing water has evaporated from the concrete, smooth the surface. Taper it away from the post so rain will flow in that direction. Wait 24 hours before post is subjected to any strain
- For load-bearing applications, follow local building codes for proper footing specifications

## FINISHING

Any standard concrete finishing technique is acceptable for use with QUIKRETE® Concrete Mix. Concrete can be hand troweled, power-troweled, broom finished or finished with other specialty finishes.

## CURING

### General

Curing is one of the most important steps in concrete construction. Proper curing increases the strength and durability of concrete, and a poor curing job can ruin an otherwise well-done project. Proper water content and temperature are essential for good curing. In near freezing temperatures the hydration process slows considerably. When weather is too hot, dry or windy, water is lost by evaporation from the concrete, and hydration stops, resulting in finishing

difficulties and cracks. The ideal circumstances for curing are ample moisture and moderate temperature and wind conditions. Curing should be started as soon as possible and should continue for a period of 5 days in warm weather at 70°F (21°C) or higher or 7 days in colder weather at 50 - 70°F (10 - 21°C).

### Specific Curing Methods

- QUIKRETE® Acrylic Cure & Seal – Satin Finish provides the easiest and most convenient method of curing. Apply by spray, brush or roller soon after the final finishing operation when the surface is hard. The surface may be damp, but not wet, when applying curing compound. Complete coverage is essential
- Other methods of providing proper curing include covering the surface with wet burlap; keeping the surface wet with a lawn sprinkler and sealing the concrete surface with plastic sheeting or waterproof paper to prevent moisture loss
- If burlap is used, it should be free of chemicals that could weaken or discolor the concrete. New burlap should be washed before use. Place it when the concrete is hard enough to withstand surface damage and sprinkle it periodically to keep the concrete surface continuously moist
- Water curing with lawn sprinklers, nozzles or soaking hoses must be continuous to prevent interruption of the curing process
- Curing with plastic sheets is convenient. They must be laid flat, thoroughly sealed at joints and anchored carefully along edges

## PRECAUTIONS

- Curing compounds should not be applied if rain or temperatures below 50°F (10°C) are expected within 24 hours
- Curing with plastic or burlap can cause patchy discoloration in colored concrete. For colored concrete, wet curing or the use of QUIKRETE® Acrylic Cure & Seal – Satin Finish is recommended
- Do not use curing compounds during late fall on surfaces where de-icers will be used to melt ice and snow. Using curing compounds at that time may prevent proper air drying of the concrete, which is necessary to enhance its resistance to damage caused by de-icers
- Protect concrete from freezing during the first 48 hours. Plastic sheeting and insulation blankets should be used if temperatures are expected to fall below 32°F (0°C)

## WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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CEMENT & CONCRETE PRODUCTS™

## MORTAR MIX

PRODUCT NO. 1102

### PRODUCT DESCRIPTION

QUIKRETE® Mortar Mix is a construction grade mortar mix designed for laying brick, concrete masonry units and stone.

### PRODUCT USE

QUIKRETE® Mortar Mix is a construction grade mortar mix designed for laying brick, concrete masonry units and stone. QUIKRETE® Mortar Mix is a pre-blended, sanded product. The standard formulation meets ASTM C 270 and C 1714 for Type N mortar.

### COLORS

QUIKRETE® Mortar Mix is available in gray and additional colors by special order. Color can also be added to the product as it is mixed by adding QUIKRETE® Stucco and Mortar Color (#1319) to the mixing water. Twenty standard colors are available.

### SIZES

- QUIKRETE® Mortar Mix -
  - 60 lb (27.2 kg) bags
  - 80 lb (36.3 kg) bags

### YIELD

- Each 80 lb (36.3 kg) bag of QUIKRETE® Mortar Mix will lay up to 37 standard bricks or 13 standard (8" x 8" x 16" [200 x 200 x 400 mm]) blocks.

### TECHNICAL DATA

#### APPLICABLE STANDARDS

ASTM International

- ASTM C 270 Specification for Mortar for Unit Masonry
- ASTM C 387 Specification for Packaged, Dry, Combined Materials for Mortar and Concrete
- ASTM C 1714 Specification for Preblended Dry Mortar Mix for Unit Masonry

#### PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Mortar Mix meets or exceeds the property requirements of ASTM C 270, ASTM C 387 and ASTM C 1714 for the type selected. Refer to Appendix XI of ASTM C270 for guidance in selecting the proper mortar type. See Table 1.

### INSTALLATION

#### SURFACE PREPARATION

Surfaces to receive Mortar Mix should be clean and free of dirt, loose debris, grease, oil, etc., for the best possible bond.

## DIVISION 4

Masonry Mortaring  
04 05 13



### MIXING

- For each 80 lb (36.3 kg) bag, add 9 pt (4.3 L) of fresh water to mixer
  - Turn the mixer on and begin adding bags of Mortar Mix
  - If the material becomes too difficult to mix, add additional water until a workable mix of trowelable consistency is obtained
- Note - Final water content should be 9 - 14 pt (4.3 - 6.6 L) for each 80 lb (36.3 kg) bag and 7 - 10 pt (3.3 - 4.7 L) for each 60 lb (27.2 kg) bag.

### INSTALLATION

- Apply a full bed of mortar onto the base, approximately 1/2" - 3/4" (12.7 - 19.1 mm) thick
- Push downward into the mortar bed and sideways against the previously laid block with a slight twisting motion
- Tool the mortar joints when they become thumbprint hard. This will make the mortar joint watertight and provide a neat appearance

Table 1

Hydraulic Cement-Lime Mortars or Cement Mortars			
Type	Minimum Compressive Strength, psi (MPa)	Water Retention Minimum %	Air content Maximum %
M	2500 (17.2)	75	12
S	1800 (12.4)	75	12
N	750 (5.2)	75	14 <sup>1</sup>
O	350 (2.4)	75	14 <sup>1</sup>
Masonry Cement Mortars			
Type	Minimum Compressive Strength, psi (MPa)	Water Retention Minimum %	Air content Maximum %
M	2500 (17.2)	75	18
S	1800 (12.4)	75	18
N	750 (5.2)	75	20 <sup>2</sup>
O	350 (2.4)	75	20 <sup>2</sup>

<sup>1</sup> When structural reinforcement is included, the maximum air content shall be 12%

<sup>2</sup> When structural reinforcement is included, the maximum air content shall be 18%

### CURING

Curing of masonry mortars is required only if conditions are very hot, dry or windy. In such cases, a gentle mist of water applied to the surface will prevent premature drying and improve the strength of the mortar.



CEMENT & CONCRETE PRODUCTS™

### **PRECAUTIONS**

Variations in mix water amount, mix time, curing conditions and finishing will cause color variations.

### **WARRANTY**

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of

its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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*\* Refer to [www.quikrete.com](http://www.quikrete.com) for the most current technical data, MSDS, and guide specifications*



# PROSELECT HYDRAULIC PLUG CEMENT

## PSHYD

### Description

PROSELECT hydraulic cement is a fast setting, expansive cement. It is compounded to withstand continual exposure to water even under pressure. Sets rapidly for emergency repairs with minimal downtime.

### Uses

- Industrial, commercial, & residential applications above or below grade.
- Stops water flow through cracks and holes in existing masonry surfaces.
- Repairs leaks in sewer pipes, basements, & manholes.
- Emergency repairs of ruptured concrete water pipes.
- Not for use as a traffic bearing repair mortar or a structural or machine bearing grout.

### Part Numbers

PSHYD1GALREG	1 Gallon 10# pail regular set hydraulic cement
PSHYD5GALREG	5 Gallon 50# pail regular set hydraulic cement
PSHYD5GALFAS	5 Gallon 50# pail fast set hydraulic cement

### Set times\*

PSHYD****REG	4 to 6 minutes @ 70°F/21°C
PSHYD****FAS	60 to 90 seconds @ 70°F/21°C

\*Set times can vary with ambient temperature and/or water temperature



### Technical Data

Compressive Strength ASTM C 109		
Time	Fast Set	Regular Set
1 hour	1645 psi	970 psi
1 day	3045 psi	1717 psi
7 days	5226 psi	2794 psi

Flexural Strength ASTM C 348		
Time	Fast Set	Regular Set
7 days	402 psi	533 psi
14 days	489 psi	625 psi
21 days	560 psi	860 psi

Tensile Strength ASTM C 307		
Time	Fast Set	Regular Set
7 days	195 psi	196 psi

### Usage & Storage

PROSELECT Hydraulic cement sets up quickly; prepare only enough for immediate use. Store unused powder in its original container, off the floor, & in a dry place