



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000127317 TWO (2) YEAR CONTRACT FOR THE SUPPLY OF
MISCELLANEOUS PIPELINE MAINTENANCE ITEMS ON AN AS BASIS
FOR THE JEFFERSON PARISH DEPARTMENT OF DRAINAGE.
Jefferson Parish Government**

Project documents obtained from www.CentralBidding.com

30-Jul-2019 09:17:12 AM



BID #50-00127317

**TWO (2) YEAR CONTRACT FOR THE SUPPLY OF
MISCELLANEOUS PIPELINE MAINTENANCE ITEMS ON AN AS
NEEDED BASIS FOR THE JEFFERSON PARISH DEPARTMENT OF
DRAINAGE**

AUGUST 8, 2019 @ 2:00 P.M.

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-Suite 4400
Gretna, LA 70053
Buyer Name: SHANNA FOLSE
Buyer Email: SFOLSE@JEFFPARISH.NET
Buyer Phone: 504-364-2680**



JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Renny Simno
Director

June 2019

CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES

The Jefferson Parish Purchasing Department would like to make vendors aware of the following changes:

DEDUCTIBLES: The Parish Attorney with concurrence of the Director of Risk Management have waived the deductible section of the Terms and Conditions for all Invitations to Bid, until further notice.

PROTESTS: Only those vendors that submit bids in response to a solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing.
(For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

Please contact the Jefferson Parish Purchasing Department at 504-364-2678 if you have any questions or need assistance.

**TWO YEAR CONTRACT FOR THE SUPPLY OF
MISCELLANEOUS PIPELINE MAINTENANCE ITEMS ON AN
AS NEEDED BASIS FOR THE JEFFERSON PARISH
DEPARTMENT OF DRAINAGE**

BID #50-00127317

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

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 0020-0040):

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 mineral fillers, and chemical additives which chemically neutralizes and seals from within in the form of a pre-mixed powder. 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:

Fabric Property	Test Method	Typical Value (Unit)
Weight	ATM 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: 7/19/2019
BID NO.: 50-00127317

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: SFOLSE@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, 8/08/2019 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 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.

Jefferson Parish adheres to the Louisiana Code of Governmental Ethics, contained in Louisiana Revised Statutes Annotated, R.S. 42:1101, et seq. Vendor/Proposer by this submission, warrants that there are no "conflicts of interest" related to this procurement that would violate applicable Louisiana Law. Violation of the Louisiana Code of Governmental Ethics may result in rescission of contract, permit or licenses, and the imposition of fines and/or penalties, without contractual liability to the public in accordance with applicable law.

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 via email to the buyer's email address as indicated above, no later than Five (5) working days prior to the bid opening. Bid numbers should be mentioned in all requests. 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.

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

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.

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 submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

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.

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.

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 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. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Prior to contract executions/purchase order issuance, the successful bidder will be required to provide final insurance certificates which shall name Jefferson Parish as an additional insured in accordance with the instructions in the aforementioned "Standard Insurance Requirements" sheet.
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.

See Page 1 for Conflicts of Interest Statement

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 - 1 week

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

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Ferguson Ent DBA Louisiana Utilities Supply

ADDRESS: 901 Solabarne rd Suite 206

CITY, STATE: Metairie LA ZIP: 70001

TELEPHONE: (844) 834-1106 FAX: (844) 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: \$ 101,093.³⁰

AUTHORIZED SIGNATURE: Cathy A. McCarthy

Cathy A. McCarthy
Printed Name

TITLE: Branch Manager

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.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00127317

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	218.00	BG	TWO (2) YEAR CONTRACT FOR THE SUPPLY OF MISCELLANEOUS PIPELINE MAINTENANCE ITEMS ON AN AS NEEDED BASIS FOR THE JEFFERSON PARISH DEPARTMENT OF DRAINAGE. 0010 - Two (2) Year Contract for Miscellaneous Pipeline Maintenance Items for the Jefferson Parish Department of Drainage. First Item on bid: Portland Cement 94 lb. bag (1 cu ft bag)	3.95 Bag	861.10
2	8,000.00	BG	0020 - Gravel Mix (80 lb. bags)	3.66 Bag	29,280.00
3	350.00	BG	0030 - Sand Mix (80 lb. bags)	4.44 Bag	1554.00
4	3,500.00	BG	0040 - Mortor Mix (80 lb. bags)	4.67 Bag	16,345.00
5	1,800.00	FT	0050 - Ram-Nek Plastic Sealant - 1.5" (70 ft. per box)	1.23 PR FT	2214.00
6	6,000.00	FT	0060 - Ram-Nek Plastic Sealant - 2" (35 ft. per box)	2.59 PR FT	15,540.00
7	560.00	PL	0070 - Pipe Plugs (50 lb. pails)	29.50 ea.	16,520.00
8	4,000.00	PL	0080 - Pipe Plug (10 lb. pail w/ handle)	NOT MADE	∅
9	85.00	BG	0090 - Drycon Manhole Waterproofing Coating Material (50 lb. bag) Color: White	NO BID	∅
10	45.00	BG	0100 - Drycon Manhole Waterproofing Coating Material (50 lb. bag) Color: Natural Gray	NO BID	∅
11	40.00	ROLL	0110 - Filter Cloth (12'6"W x 360'L)	240.00 PR Roll	9600.00

B# 300636

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00127317

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
12	12.00	ROLL	0120 - Filter Cloth (3'W x 360'L)	69.00 pr Roll	828.00
13	10.00	ROLL	0130 - Filter Cloth (15'Wx360'Lx600sqyd)	288.00 pr Roll	2880.00
14	250.00	EA	0140 - Wood Pallets	NO BID	0
15	20.00	ROLL	0150 - Geogrid	272.46 pr Roll	5449.20

STANDARD INSURANCE REQUIREMENTS FOR BIDDING PURPOSES

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 **Invitation to 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.

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.

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 - The Parish Attorney with concurrence of the Director of Risk Management have waived the deductible section of the Terms and Conditions for all Invitations to Bid, until further notice.

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.



ADDITIONAL REMARKS SCHEDULE

AGENCY Willis of Pennsylvania, Inc.		NAMED INSURED Ferguson Enterprises, LLC and Subsidiaries (See Attached Named Insured Schedule) 12500 Jefferson Avenue Newport News, VA 23602	
POLICY NUMBER See Page 1			
CARRIER See Page 1	NAIC CODE See Page 1	EFFECTIVE DATE: See Page 1	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
 FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

IL, IN, KS, KY, LA, ME, MD, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, NY, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WV.

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 as required by written contract but only with respect to liability arising out of Named Insured's operations; Auto Liability and Umbrella/Excess Liability. Umbrella/Excess Follows Form.

INSURER AFFORDING COVERAGE: ACE American Insurance Company NAIC#: 22667
 POLICY NUMBER: RWCC65893952 EFF DATE: 05/01/2019 EXP DATE: 05/01/2020

TYPE OF INSURANCE:	LIMIT DESCRIPTION:	LIMIT AMOUNT:
Workers' Compensation &	E.L. Each Accident	\$2,000,000
Employers Liability - WI	E.L. Disease -Pol Lmt	\$2,000,000
Per Statute	E.L. Disease-Each Emp	\$2,000,000

FERGUSON ENTERPRISES, LLC
ACTIVE DBA SUBSIDIARY LIST

<u>Entity Name</u>	<u>Entity Name</u>
AC Wholesalers	Ferguson Waterworks
Action Automation, a Wolseley Industrial Group company (eff 8/20/2018)	Ferguson Waterworks - Municipal Pipe
ADL (effective 7/16/2018)	Ferguson Waterworks - Red Hed
Alaska Pipe & Supply	Ferguson Waterworks EPPCO
Andrews Lighting & Hardware Gallery	Ferguson Waterworks International
The Ar-Jay Center	Galleria Bath & Kitchen Showplace
Atlantic American Fire Equipment Company	Grand Junction Pipe (effective 9/24/2018)
Avallon Global	HM Wallace, Inc.
BAC Appliance Center	H. P. Products Corporation
Bath + Beyond	HP Logistic, Inc.
Bayport Partners, LLC	Improvement Brands Holdings, Inc.
Blackman Plumbing Supply, LLC (effective 12/11/2018)	Industrial Hub of the Carolinas
Brock-McVey (effective 7/30/2018)	James Martin Signature Vanities, LLC (effective 1/28/2019)
Bruce-Rogers Company	J&G Products
Build.com, Inc. (fka Improvement Direct, Inc.)	Jones Stephens Corp. (effective 8/13/2018)
Cal-Steam	Jones Stephens Global Sourcing (Wuxi) Ltd. (effective 8/13/2018)
Capital Distributing (effective 10/29/2018)	J.D. Daddario Company
City Lights Design Showroom	Joseph G. Pollard Co.
CFP	Karl's Appliances
Clawfoot Supply, LLC	Kitchen Art (effective 2/4/2019)
Cline Contract Sales	Lakeland Plumbing Supply, LLC
Custom Lighting & Hardware	Lighting Design Center
Davies Water	Lighting Unlimited
DBS Holdings, Inc.	Lincoln Products
Dealernet	Linwood Pipe and Supply
Duhig Stainless (effective 3/12/2018)	Living Direct, Inc.
Energy & Process Corporation	Louisiana Utilities Supply Company
Equarius Waterworks, Meter & Automation Group	LUSCO
Factory Direct Appliance	Mahwah Realty, LLC
Ferguson Bath & Kitchen Gallery	Maskir Properties Inc.
Ferguson Bath, Kitchen & Lighting Gallery	Matera Paper Company, Inc.
Ferguson.com	Max Industries, Ltd. (effective 1/28/2019)
Ferguson CESCO, Inc.	McFarland Supply
Ferguson Direct	Michigan Meter
Ferguson Enterprises, Inc.	Millennium Lighting, Inc. (effective 8/27/2018)
Ferguson Facilities Supply (FEI)	Mississippi Utility Supply Co. (MUSCO)
Ferguson Facilities Supply (for Matera Paper -TX only)	Myers HVAC Supply
Ferguson Facilities Supply, Dogwood Building Supply Division (eff 10/22/18)	National Fire Products
Ferguson Fire & Fabrication, Inc.	New Jersey Plumbing Group, LLC
Ferguson Fire & Fabrication International	New York Plumbing Designs, LLC
Ferguson Heating & Cooling	North Point Plumbing Supply, LLC
Ferguson Hospitality Sales	Orange County Plumbing Group, LLC
Ferguson HVAC – Air Cold	Palm Designs LLC
Ferguson HVAC – EastWest Air	PCS Industries
Ferguson HVAC – Lyon Conklin	PL Sourcing
Ferguson Integrated Services	Plumb Source
Ferguson International	Plumbing Décor
Ferguson Panama, S.A.	Plumbing Holdings Corp.
Ferguson Parts & Packaging	Pollardwater
Ferguson Valve & Automation	Powell Pipe & Supply Co.

FERGUSON ENTERPRISES, LLC
ACTIVE DBA SUBSIDIARY LIST

PAGE 2 - DBA & SUBSIDIARY LIST	
Entity Name	Entity Name
Power Equipment Direct Inc.	
Professional's Bath Source	
PV Sullivan Supply	
Ramapo Wholesalers	
RB Huntington Realty, LLC	
Robertson Supply (effective 11/19/2018)	
Rocky Hollow Realty, LLC	
Renwes Sales	
Redlon & Johnson	
Reese Kitchen, Bath & Lighting Gallery	
Safe Step Walk in Tub, LLC (effective 7/31/2018)	
SG Supply Co.	
Ship-Pac	
Signature Hardware	
SimplyPlumbing, LLC	
SOS Sales	
Southhampton Realty Corp.	
Stock Loan Services, LLC	
Supply.com	
Tarpon Wholesale Supplies	
The Davidson Group	
The Plumbing Source	
The Stock Market	
Tinkar Realty, LLC	
TotalFab, LLC	
TPW Kitchen & Bath	
Wallwork (effective 12/10/2018)	
Wanlyn Realty Corp.	
Waterworks Industries	
Webb Distributors	
Western Air Supply	
Westfield Lighting	
Wholesale Group	
Wholesale Group Operations, Inc.	
Wolseley (Barbados) Ltd	
Wolseley de Puerto Rico, Inc.	
Wolseley Financial Services	
Wolseley Industrial Group	
Wolseley Integrated de Mexico S.A. de C.V.	
Wolseley Investments North America, Inc.	
Wolseley Investments, Inc.	
Wolseley NA Construction Services, LLC	
Wolseley NA Finance, Inc.	
Wolseley Staffing de Mexico S.A. de C.V.	
WPCC Forwarding	
Wright Plumbing Supply	

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 LA

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 Branch Manager of Ferguson ENT DBA Louisiana Utilities Supply (Entity), the party who submitted a bid in response to Bid Number 500062731.7 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 8 DAY OF August, 2017

[Signature]
Notary Public

Printed Name of Notary



J D DELIBERTO
Notary Public #040587
Jefferson-Orleans Parish, La.
My Commission is for Life

Notary/Bar Roll Number

My commission expires n/a

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

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) ¹	ASTM D4751	U.S. Sieve (mm)	60 (0.25)	
Permittivity	ASTM D4491	sec ⁻¹	2.0	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	145 (5907)	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

¹ 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 ² (m ²)	500 (418)	600 (502)
Estimated Roll Weight	lb (kg)	133 (60)	160 (70)

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Mirafi® is a registered trademark of Nicolon Corporation

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365 South Holland Drive
Pendergrass, GA 30567

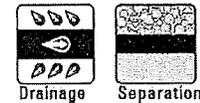
Tel 706 693 2226
Tel 888 795 0808

Fax 706 693 4400
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 ⁻¹	2.1	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	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 ² (m ²)	500 (418)	600 (502)

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365 South Holland Drive
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Tel 888 795 0808

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FGS000358
ETQR43



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

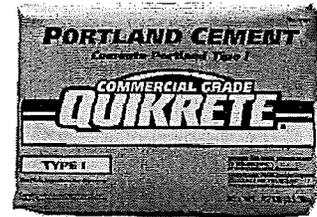
PRODUCT No. 1124-31, -47, -94

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 m³) 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 for the most current technical data, MSDS, and guide specifications

QUIKRETE®

CEMENT & CONCRETE PRODUCTS™

SAND/TOPPING MIX

PRODUCT NO. 1103

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.

DIVISION 3

Concrete Topping
03 53 00



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 x 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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QUIKRETE®

CEMENT & CONCRETE PRODUCTS™

CONCRETE MIX

PRODUCT NO. 1101

DIVISION 3

Structural Concrete
03 31 00

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	Typical Values
Age	
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



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

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MORTAR MIX

PRODUCT No. 1102

DIVISION 4

Masonry Mortaring
04 05 13

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.

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 ¹
O	350 (2.4)	75	14 ¹
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 ²
O	350 (2.4)	75	20 ²

¹When structural reinforcement is included, the maximum air content shall be 12%

²When 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.

PRECAUTIONS

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

WARRANTY

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** Refer to 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

TECHNICAL DATA SHEET
- RAM-NEK JOINT SEALANT

Last Rev Date: 03/02/2011

Physical Properties

Appearance Semi-solid	Maximum VOC <5 g/l	Softening Point (ASTM D 36) 320°F
Ductility @ 77° F, 5cm/min (ASTM D113) Min. 5.0	Penetration @ 77°F (150g 5 sec) (ASTM D217) Min. 50 - Max. 120	Specific Gravity @ 77° F (25°C) (ASTM D71) Min. 1.20 - Max. 1.35
Flash Point, C.O.C. (ASTM D92) Min. 600°F		

Approvals and Certifications

Manufactured to comply with Federal Specification SS-S-210 A, AASHTO M-198 75 1, and ASTM C990-91

Usage

- Storm Sewer Pipe
- Box Culverts
- Manhole Risers
- Septic Tanks
- Utility & Burial Vaults
- Wet Wells

Application

Vertical Application:

Apply one brush coat of **Ram-Nek Primer** to concrete surfaces to be sealed. Primer is recommended but not required unless conditions are wet. Remove protective wrapper on one side only of preformed **Ram-Nek** strip and press firmly to the dry, clean joint surface. Leave the outside wrapper in place to protect the gasket and keep it from stretching. Remove protective wrapper from **Ram-Nek** gasket and set next section. Each unit is forced "home" by its own weight, compressing **Ram-Nek** to tightly pack and immediately seal the joint. "Squeeze out" is visible proof of a watertight joint. After last section is set and fully "seated", the installation is complete. Backfilling and compaction can start immediately.

Horizontal Application:

Trench conditions shall be such that pipe jointing can be accomplished without getting mud, silt, gravel or other foreign materials into the joint. Generally, the trench should be dewatered and have a firm bottom free of muck. Remove protective wrapper on one side only of preformed **Ram-Nek** strip and press firmly to the dry, clean joint surface. Before laying the pipe in the trench, attach the gaskets end-to-end to the leading edge of the tongue or groove of each pipe joint, forming a continuous gasket around the circumference. Remove the protective wrapper before joining pipe sections. After the gasket is applied, the pipe should be handled carefully to avoid displacing or soiling of gasket. Any gasket so disturbed should be replaced. The pipe should be properly aligned before joints are forced home. For tongue and groove pipe, the pipe should be partially supported to maintain concentricity until the gasket is properly compressed in the joint space and sufficient pressure applied to make sure that the joint is properly made. Backfilling and compaction can begin when jointing is completed.