

FOIA # 1376

**THE SCHUTZER GROUP, PLLC**

ATTORNEYS AT LAW  
330 Seventh Avenue, 15<sup>th</sup> Floor  
New York, NY 10001  
Phone (212) 714-0700 Fax (212) 714-0703

May 15, 2012

Via Facsimile - 212-435-7555  
Ms. Danielle Duffy  
The Port Authority of New York  
and New Jersey ("Port Authority")  
225 Park Avenue South  
New York, New York 10003

Re: Freedom of Information Request  
Quadrozzi Concrete Corp. a/k/a Quadrozzi ("Quadrozzi")

Dear Ms. Duffy:

This Formal Request is hereby made to inspect and copy the following records:

1. Identification of Quadrozzi's full name(s) as indicated in your records.
2. The last known address and telephone number for Quadrozzi.
3. The tax ID number of Quadrozzi.
4. Any deposits, security or other moneys of Quadrozzi being held by the Port Authority.
5. Identification of any Port Authority projects or contracts with which Quadrozzi is a general or subcontractor, and if so, the particulars thereof.
6. Any qualification forms or other information submitted to the Port Authority by or submitted on behalf of Quadrozzi.
7. Any applications, or information provided in support thereof, by Quadrozzi or third parties for Quadrozzi to work on Port Authority projects and/or to contract with the Port Authority.
8. Records of payments made to Quadrozzi by the Port Authority or payments made by Port Authority to third parties relating to work and materials supplied by Quadrozzi.
9. Copies of all lien waivers submitted in support of any payments made to Quadrozzi.
10. Identification of all bonds provided by or on behalf of Quadrozzi, and if so, the number and other identifying information thereof, the amounts thereof, the locations such bonds pertain to and the name, address and telephone number of the bonding company.
11. Identification of any accounts payable due to Quadrozzi, and if so, identification of the invoices and amounts.

## THE SCHUTZER GROUP, PLLC

ATTORNEYS AT LAW  
330 Seventh Avenue, 15<sup>th</sup> Floor  
New York, NY 10001  
Phone (212) 714-0700 Fax (212) 714-0703

12. Identification of any pending transactions or sums of money due or to become due to Quadrozzi, and if so, the particulars thereof.
13. Identification of any bank information provided by Quadrozzi.
14. Identification of Quadrozzi's bank name and account number from the reverse side of any cancelled check the Port Authority provided to Quadrozzi.
15. Identification and description of any assets of Quadrozzi, and if so, the location thereof.
16. Identification of any contracts and/or projects which Quadrozzi is performing work and/or providing materials, including where Quadrozzi is acting as a sub contractor.

Under the terms of the New York Public Officers Law § 89(3) we expect to be able to inspect these records within five working days.

When these records are available, you may call me at (212) 714-0700.

Thank you for your cooperation in this matter.

Sincerely,



Eric P. Schutzer, Esq.  
For The Schutzer Group, PLLC

**THE PORT AUTHORITY OF NY & NJ**

Daniel D. Duffy  
*FOI Administrator*

September 13, 2012

Mr. Eric Schutzer  
The Schutzer Group, PLLC  
330 7th Avenue, 15 Floor  
New York, NY 10001

Re: Freedom of Information Reference No. 13176

Dear Mr. Schutzer:

This is a response to your May 15, 2012 request, which has been processed under the Port Authority's Freedom of Information Code (the "Code") for copies of various records related to Quadrozzi Concrete Corp. a/k/a Quadrozzi.

Material responsive to items 1, 2, 6, and 8 of your request and available under the Code can be found on the Port Authority's website at <http://www.panynj.gov/corporate-information/foi/13176-O.pdf>. Paper copies of the available records are available upon request.

We have searched our files and found no records responsive to the remainder of your request.

Please refer to the above FOI reference number in any future correspondence relating to your request.

Very truly yours,



Daniel D. Duffy  
FOI Administrator



# BIDDERS LIST

RFQ No.: 9-N-001090

No.	Name, Address, Vendor Code and Phone Number of Companies to be solicited	Under the Business Code Column, Please Mark SB or SDB	Business Code	
			MBE	WBE
1	Company Name: QUADROZZI CONCRETE CORP. Contact Name: CARL ADLER Address: 73-10 AMSTEL BLVD ARVERNE, NY 11692  Phone: (718) 474-4333 Cell: N/A Fax: (718) 318-2801			

# Quadrozzi CONCRETE CORP. *Our strength grows everyday*

Mail: PO BOX 920179, ARVERNE, NY 11692  
E-mail: info@QuadrozziConcrete.com

Phone (718) 474-4333 Fax (718) 318-2801

September 27, 2006

Phoenix Constructors/JV  
115 Broadway, 18<sup>th</sup> Floor  
New York, NY 10008

Phoenix Constructors, JV  
Reviewed for Coformance  
with Contract Documents

Attn: Sharon Quinn

Signed TT Date 9/27/06  
Spec# 03301 - 615 - 1  
WTC-284.458GC

RE: WTC-284,458 PKG. 5A

Dear Ms. Quinn,

We have reviewed the Transmittal No. 00031 dated 7/28/06 from the PANYNJ and have the following response:

1. **Facility and equipment**
  - a. The NYS DOT performs calibration of the scales under the State Plant Certification Program. Certificates of calibration for scales have been forwarded to Phoenix.
  - b. Have arranged to hire laboratory services to conduct the moisture and gradation testing at the plant as required by the specification.
2. **Materials - How often does the source of cement change?**  
Rarely. We have been using Nycemco from Cemex for several years now.
3. **Production Process**
  - a. Loads are tested from slump and air at the plant if there is a question as to the performance of the mix. This will be documented on the delivery ticket.
  - b. Ice will be added when requested by the client and, as per our meeting with the PA, be noted by weight on the batching tape printout and signed by the batching operator.
  - c. Rather than water piles of stone for hot weather concrete we will be adding ice to the loads to keep them within the acceptable temperature range.
  - d. The temperature criterion for acceptance of concrete is based upon the temperature of the material as it is placed. Whether this is accomplished by wetting the stone or adding ice is only relevant to the cost of the material, not its acceptability.

Phoenix Constructors/JV  
Attn: Sharon Quinn  
September 27, 2006  
Page 2

4. ***Project Site***

The Port Authority is conducting the testing at the site.

5. ***Appendix D***

- a. We would appreciate if the Phoenix Quality Personnel would have the dosing charts on hand for us during placements.
- b. We have added the maximum dosage allowed for each admixture to the dosing charts in our resubmittal of the Plan.

6. ***Facility and Equipment***

- a. We have listed the tests to be done at the plant in the attached revised Quality Plan
- b. The personnel to conduct the moisture and gradation testing will be provided by a contract testing lab.

7. ***Production Process***

- a. We have revised the Plan to indicate that the limits of gradation will be within the requirements of ASTM C33. There is no limitation on moisture content that we know of.
- b. We have revised the Plan to indicate that production will cease until gradation is within limits.

8. ***Project Site***

- a. We have added to the Plan that no water will be added at the site. We still reserve the right to withhold water at the plant (to be made up with HRWR at the site) as a margin against over dosing the water.
- b. We have added to our Plan the remark that loads over 90 minutes and 92 degrees F will not be used.
- c. At present we have no one on staff with certifications that comply with Article 3.03A
- d. We will have the ACI publications and will keep them at the plant for ready reference.

Very Truly Yours,

**QUADROZZI CONCRETE CORP.**

Misha Tartakovsky

MT/kb

G:\Quad Concrete\WTC\WTC-284.458.doc

## **Quadrozzi** CONCRETE CORP.

Mail: PO BOX 920179, ARVERNE, NY 11692  
E-mail: info@QuadrozziConcrete.com

Phone (718) 474-4333  
Fax (718) 318-2801

September 27, 2006

### **Subject: Quality Control Program**

Quadrozzi Concrete Corp (QCC) is proud to present our Quality Control program to Phoenix Constructors JV for concrete supplied to the Transportation Hub at the World Trade Center Site. The following includes our normal operating procedures along with some additional procedures, which are typical for providing concrete to Port Authority Jobs.

### **PERSONNEL**

Any well established QC program starts with the people. QCC is the only New York City concrete producer to have on staff a QC manager (Misha Tartarkovsky) (Appendix A). In addition, our operations management team consists of our dispatcher and two operations supervisors (Michael Cassatto and Emanuel Paradiso), who all work together with Mr. Tartarkovsky to ensure the quality of our product (Appendix B). Our team has worked together for over 20 years. We take a hands-on approach to the every day production.

Besides our management team, our plant personnel and delivery staff are all well experienced and focused on manufacturing and delivering a quality product. Our delivery personnel have all been certified by the NRMCA.

### **FACILITY & EQUIPMENT**

The majority of the concrete for this project will be manufactured at our Red Hook Facility located at 226 Huntington Street, Red Hook, Brooklyn, which has access to the Brooklyn Battery Tunnel and the Manhattan Bridge. In addition, our Maspeth facility located at 46-73 Metropolitan Avenue, Ridgewood, Queens, will be available as backup.

The Red Hook Facility houses a single batch plant; designated as State facility #20384. The plant has (4) cement silos and (6) aggregate bins. The Maspeth facility houses a double batch plant; designated as State facility #20302 and #20303.

Each plant has (5) cement silos, and (4) aggregate bins. All three plants are state certified (Appendix C). The plants are capable of loading (12) cubic yards of concrete in a single batch.

We have a scale check performed by NYS DOT Region 11 every three months. Automation and admixture dispenser checks are performed on an annual basis, and the accuracy of our water meters is confirmed quarterly. We also have a fully equipped laboratory at both facilities to test the materials for moisture and gradation conformance. Personnel conducting these tests will be certified as ACI I - Lab Technician. Documentation of these qualifications will be provided to Phoenix Constructors. Tests of gradation and moisture will be as per ASTM C-136 and C-566 respectively. ACI Publications ACI 211, 213, and 304R as well as all others in the ACI Manual of Concrete Practice will be available at the plant for ready reference.

We are currently operating forty-two state approved ready mix concrete trucks, with an additional fifteen ready to be put on the road when needed. The amount of vehicles necessary to properly service the job will vary depending on the size of each pour.

**MATERIALS**

The following is a list of materials that are used by us regularly in the production of concrete:

<u>MATERIAL</u>	<u>NAME</u>	<u>LOCATION</u>	<u>TEST</u>	<u>SOURCE#</u>	<u>SP.GRAV</u>
Sand	Roanoke	Suffolk	02AF138	10-16F	2.65
Stone	N.Y. Trap Rock	Clinton Pt.	98AR20	8-9R	2.81
	NY Sand & Stone	Brooklyn Navy Yard Pier J	99AR6	10-29R	2.69
Cement	Nycemco Brand Code #56	Brooklyn, NY	MEA #131-87-M		
Flyash	STI Brand Code #12	Baltimore Gas & Electric Brandon Shores Baltimore MD.			

**MASTER BUILDERS**

Sika Air	Code 1045	Sikament 2100	Code 4048
Plastiment	Code 2016	Sika CNI	Code N/A
Plastocrete 161	Code 3016	Sikacrete 950DP	Code 6009
Plastocrete 161 FL	Code 7004	Sikament 686	Code 4050
SikaRamp-1	Code 7008		

In addition to the materials listed above, we have the ability to handle specialty products at our facilities when specified.

## PRODUCTION PROCESS

At the onset of the project, Quality Control personnel will confirm that all design mixes requested are on file and approved. All orders are to be placed at least a day in advance of delivery so that we could properly prepare to have materials and personnel on hand.

All moisture and gradation checks of aggregate materials will be performed the morning of the pour prior to loading and continuously performed throughout the pour. The morning gradation and moistures report will be sent to the job with the first truck. Moisture will be adjusted in the batch computers based on the test results to ensure proper water cement ratio in the final product. Problems with gradation will be immediately addressed with the supplier of the material. Our QC personnel will postpone the pour until the gradations are within acceptable parameters. Batch tapes showing the actual batch weights for the load of concrete will be provided with every load along with the delivery ticket.

As each design mix for the project is first used, QC will physically check the loads for proper slump, and air content to ensure mix is performing as expected. These checks will also be performed as necessary for the duration of the project. If slump and air content are found to be out of tolerance, adjustments will be made to correct the problem before the first load leaves the plant. Tests will be as per ASTM C172, C143, C231, C1064, and C138 as necessary.

In order for production to start, the customer will have to confirm the order on the morning of the pour with our dispatch. Once released, the trucks will be loaded one at a time with the proper spacing required to efficiently service the job. In addition, before commencing the batch process for the next truck, the loaded truck will mix for ten minutes and be visually checked at the plant for proper slump and consistency by a qualified member of our team. This will allow us to make any necessary adjustments prior to beginning another load.

During adverse weather conditions where temperature poses concern, we will continuously check temperature to insure the product is within agreed tolerances. When necessary we will adjust our process to ensure compliance.

Winter concrete typically starts during November and continues through March. QCC has a heating system in both facilities to make hot water, and heat the aggregates. Hot water temperatures can be adjusted as needed to establish desired consistent concrete temperatures. Aggregates are usually heated during extreme cold weather to eliminate aggregate consolidation. In addition, we carry non-chloride accelerator which can be used to decrease the time for the hydration process to take place. Accelerators are dispensed into the loads at the site immediately prior to discharge using a pony tank system located on each truck.

During periods of hot weather in the summer, we will introduce ice into the mix. This tends to be a costly remedy and is only recommended for extreme situations. When ice is

added, water quantity will have to be compensated. The addition of ice will be noted by weight on the batching ticket and signed by the batching operator. During the summer months, as well as during lengthy pours, we will introduce retarding agents into the mix to delay the hydration process.

### **PROJECT SITE**

We will have a quality control technician available for the jobsite during each pour. The trucks will be scheduled to the best of our ability, so as to maintain a consistent flow of concrete to the project. It is important that our dispatcher maintain constant communication with the field supervisor. Any delays or problems on the site should immediately be discussed. Loads over 90 minute old or 92 degrees F will not be used.

All operators will be instructed on how to handle the loads. Water is not permitted to be added to the load, unless instructed by Quadrozzi Concrete (QCC) Quality Control personnel under certain circumstances. Each truck will have the ability to carry high range water reducer (super-p) dispensed through the vehicles' pony tank system, in order to readjust the slump. The product should be specified in the design mix for use. In addition, the trucks carry retarder and air in separate containers that can be added to the loads when necessary. Our operators are experienced in the proper way to make any adjustments (See Appendix D for Admixture Charts). Admixture dosage charts will be available at the point of use. Maximum dosages will be shown on these charts.

Quadrozzi Concrete Company policy is that absolutely no one other than the concrete truck operator is allowed to operate the vehicle or any of the valves, and controls including the chutes. Only the operator is permitted to climb on the vehicle. Any admixtures, dyes or other additives are not permitted to be added to our product unless discussed with our QC Manager prior to delivery. Mixes designed with w/c ratios of 0.4 or less will have no water added at the site. We appreciate all cooperation from the on site personnel in this matter.

Quadrozzi Concrete Corp. is proud to be part of the first phase of the redevelopment of the Transportation Hub at the World Trade Center Site. We are confident that through cooperation and team work with all parties involved in the project, we will be successful in this great undertaking.

Sincerely,

**Quadrozzi Concrete Corp**

**Misha Tartakovsky**



## Chemical and Physical Analysis of Fly Ash

Developed For: *Separation Technologies, LLC*  
 101 Hampton Avenue  
 Needham, MA 02494

Ticket: 5588 Job: 12780 Report Date: 02/16/2006	Plant of Origin: <i>STI Baltimore</i> Sample ID: Docket: -	Sample Date Range: 12/19/2005 to: 12/25/2005 Date Received: 12/30/2005
---	--	--

<u>Chemical Composition (%)</u> <small>(by Wyoming Analytical Laboratories, Inc.)</small>		ASTM C 618-03 Specifications	
		<u>Class F</u>	<u>Class C</u>
Total Silica, Aluminum, Iron:	92.6	70.0 Min	50.0 Min
Silicon Dioxide:	59.7		
Aluminum Oxide:	29.2		
Iron Oxide:	3.7		
Sulfur Trioxide:	0.0	5.0 Max	5.0 Max
Calcium Oxide:	1.0		
Moisture Content:	0.1	3.0 Max	3.0 Max
Loss on Ignition:	1.4	6.0 Max	6.0 Max
		AASHTO M 295-00 Specifications	
Available Alkalies (as Na <sub>2</sub> O):	0.4	1.5 Max	1.5 Max
Sodium Oxide:	0.06		
Potassium Oxide:	0.51		

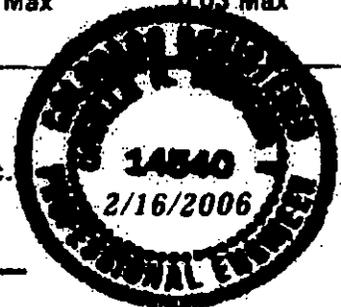
<u>Physical Test Results</u>		ASTM C 618-03 Specifications	
		<u>Class F</u>	<u>Class C</u>
Fineness, Retained on #325 Sieve (%):	26.7	34 Max	34 Max
Strength Activity Index (%)			
Ratio to Control @ 7 Days:	82.0		
Ratio to Control @ 28 Days:	86.9	75 Min	75 Min
Water Requirement, % of Control:	95.0	105 Max	105 Max
Soundness, Autoclave Expansion (%):	-0.05	0.8 Max	0.8 Max
Drying Shrinkage, Increase @ 28 Days (%):	-0.01	0.03 Max	0.03 Max
Density:	2.16		

Comments: *Meets Class F, ASTM C 618 and AASHTO M 295*

CTL | Thompson Materials Engineers, Inc.

*Orville R. Werner II*

Orville R. Werner II, P.E.



# **APPENDIX (A)**

**Quality Control Program Administrator  
Experience Record**

**Misha Tartakovsky**

**I. Odessa Civil Engineering College 1970 – 1974**

Graduated in 1974 with civil engineering degree

**II. Moscow Institute of Technology 1976 – 1977**

Concrete engineering program

**III. Long Island Testing Laboratories 1981 – 1982**

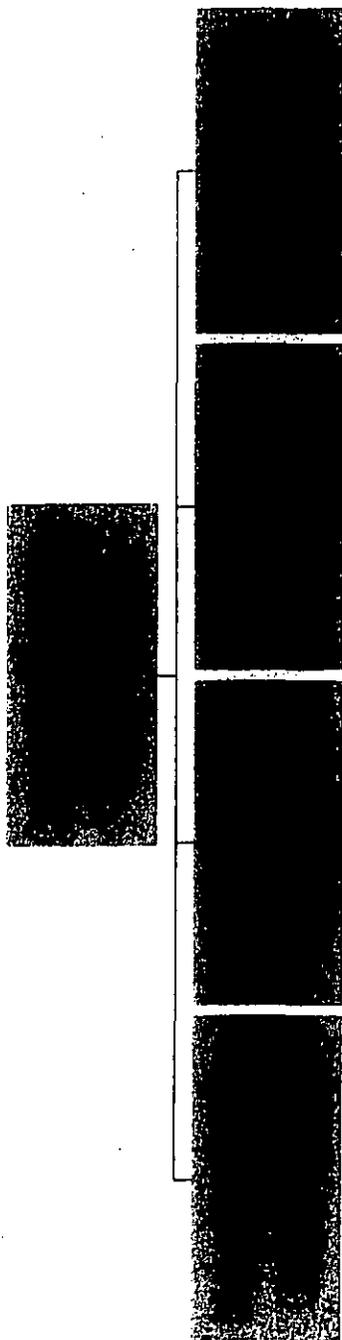
Field Manager

**IV. Quadrozzi Concrete Corporation 1982 – Present**

- a. Instrumental in setting up Quadrozzi Concrete's QC program
- b. Designed mix designs for various projects including high strength mixes for 7 WTC and Trump World Tower.
- c. Instrumental in pioneering high strength concrete, specifically 12000 PSI, for mass production in the NYC market.
- d. Successfully developed and field tested 20,000PSI concrete
- e. Instruct and supervise delivery and plant personnel in the proper handling of concrete
- f. Represent Quadrozzi as field supervisor on projects including various Port Authority projects
- g. Member of the New York City Concrete Promotional Council on the Flowable Fill, High – Rise, and Self Consolidated Concrete Committees.

# **APPENDIX (B)**

# QUADROZZI CONCRETE PRODUCTION GROUP



# **APPENDIX (C)**



State of New York  
Department of Transportation  
Hunters Point Plaza  
47-40 21<sup>st</sup> Street  
Long Island City, N.Y. 11101  
<http://www.dot.state.ny.us>

Douglas A. Currey, P.E.  
Regional Director

Thomas J. Madison, JR.  
Commissioner

February 15, 2006

**RED HOOK CONCRETE LOADING CORPORATION**  
228-42 HUNTINGTON STREET  
BROOKLYN, N.Y. 11231

Re: Concrete Plant Approval  
Facility No. 20384

Gentleman:

On 02-14-2006 personnel from the Regional Materials staff inspected your concrete production facilities located at 228-42 HUNTINGTON STREET, N.Y. 11231.

As a result of this inspection, it has been determined that the physical plant features, the automation and recordation equipment at this facility are in conformance with the requirements outlined in Section 501 of the New York State Department of Transportation Specifications of January 2, 2002, as addended.

Approval is hereby given to supply concrete from this facility to department projects during the 2006 construction season.

This approval is contingent on your ability to continue to meet all N.Y.S. D.O.T. requirements. Periodic sampling and inspections will be made to ensure continued compliance.

Any questions, call me at 718-479-2622

Yours truly,

Paul Anderle  
Regional Materials Engineer - Region 11



State of New York  
Department of Transportation  
Hunters Point Plaza  
47-40 21<sup>st</sup> Street  
Long Island City, N.Y. 11101  
<http://www.dot.state.ny.us>

Douglas A. Currey, P.E.  
Regional Director

Thomas J. Madison, JR.  
Commissioner

**MASPETH CONCRETE LOADING CORPORATION**  
**46-73 METROPOLITAN AVENUE**  
**MASPETH, N.Y. 11385**

March 21, 2008

**Re: Concrete Plant Approval**  
**Facility No. 20302 & 20303**

Gentleman:

On 02-14-2008 and 02-24-2008 personnel from the Regional Materials staff inspected your concrete production facilities located at 46-73 METROPOLITAN AVENUE, MASPETH, N.Y. 11385

As a result of this inspection, it has been determined that the physical plant features, the automation and recordation equipment at this facility are in conformance with the requirements outlined in Section 501 of the New York State Department of Transportation Specifications of January 2, 2002, as addended.

Approval is hereby given to supply concrete from this facility to department projects during the 2008 construction season.

This approval is contingent on your ability to continue to meet all N.Y.S. D.O.T. requirements. Periodic sampling and inspections will be made to ensure continued compliance.

Any questions, call me at 718-479-2622

Yours truly,

A handwritten signature in cursive script that reads "Paul Anderts".

Paul Anderts  
Regional Materials Engineer - Region 11

Desktop annual approval letter

# **APPENDIX (D)**

# Adtech North Atlantic, LLC

189 Berdan Ave # 119

Wayne, NJ 07470

www.adtechna.com

Tel. (800) 646-3320

Fax (973) 633-7146



**Table 1.**

## Acceleration Chart for Non-Chloride Accelerator

### Plastocrete 161 FL

Ambient Temperature 30-40F

Concrete Temperature 60-75F

Setting Time	100% Cement	>20% of Fly Ash or >30% of Slag	<20% of Fly Ash or <30% of Slag
3 - 4 hrs	24	30	36
4 - 5 hrs	18	24	30
5 - 6 hrs	12	16	20
6 - 7 hrs	8	12	16
7 - 8 hrs	6	8	12

Dosage Rate is in oz/cwt

Concrete must be protected from freezing for above mentioned dosage rates.

Dosage Rates must be adjusted for concrete exposed to freeze conditions

Dosage Rates indicated are for guidelines purposes only.

Trial Tests are recommended to run to establish proper setting of concrete.

Maximum Dosage Rate of Plastocrete 161 FL should do not exceed 64 oz/100 # of cementitious materials .

Please contact Local Representative for use of Sika Air above recommended maximum dosage rate

**Table 2.**

## **Dosage Rate Equivalent to Calcium Chloride**

	Plastocrete 161 FL	Plastocrete 161 HE
1%	12	16
2%	24	32
3%	36	48
4%	48	64

Dosage Rate is in oz/cwt

Use this Chart only as a Calcium Chloride Equivalent Dosage Comparison.

Actual Suggested Acceleration is in Table 1.



### **Air Entrainment Dosage Rates - Rules of Thumb**

	<b>Normal Mixes</b>	<b>With 2100/686</b>
<b>Cement</b>	<b>1.00 oz/100 lbs</b>	<b>0.50 oz/100 lbs</b>
<b>Cem.+Fly Ash</b>	<b>1.25 oz/100 lbs</b>	<b>0.75 oz/100 lbs</b>
<b>Cem.+Fly Ash+SF</b>	<b>1.50 oz/100 lbs</b>	<b>1.10 oz/100 lbs</b>

**All Dosage rates are for Sika AIR**

**Use as a Guideline Only!**

**Check Air for Accuracy in every Mix with a Meter.**

**Higher Slump Generates Higher Air with Same Amount of AEA**

**Higher Ambient Temperatures Generate Lower Air with Same Amount of AEA.**

**Lower Ambient Temperatures Generate Higher Air with Same Amount of AEA.**

**Different Cement Brands Have Different effects on Air.**

**Examples:**

Mix with Cement factor of 660 and Normal Water Reducer:  
 $1.00 * 660/100 =$

Mix with Cement 600 , Fly Ash 150 and Sikament 2000:  
 $0.50 *(600+150)/100 =$

Maximum Dosage Rate of Sika Air typically do not exceed 3 oz/100 # of cementitious materials .  
Some factors may affect the total use of AEA and require increase of dosage rate over recommended maximum dosage rate. Please contact Local Representative for use of Sika Air above recommended maximum dosage rate.



Adtech North Atlantic, LLC

189 Berdan Ave # 119  
Wayne, NJ 07470

Tel. (800) 646-3320  
Fax (973) 633-7146

[www.adtechna.com](http://www.adtechna.com)



Date:

05/05/06

## Retarder Dosage Rate Chart for Water Reducing Retarder Plastiment

Set Retarding Characteristics of Concrete	Ambient Temperature,				
	50°F - 64°F	65°F - 74°F	75°F - 84°F	85°F - 94°F	95°F & up
Normal Set			1	2	3
1 - 2 hours		1	2	2.5	3
2 - 3 hours	1	2	3	4	5
3 - 4 hours	1.5	2.5	4	6	7
4 - 5 hours	2.5	3	5	6.5	8

***Dosage Rates indicated are in oz per 100 lbs of cementitious materials***

Water Reducing Admixtures can be removed from the mix formula if Retarder reaches the dosage rate of 2 oz/100 cwt or more.

Chart provided is to be used as a guideline. Run tests in the field to verify desired results.

Concrete setting characteristics may vary due to changes in concrete ingredients, as well as differences in cement types and brands.

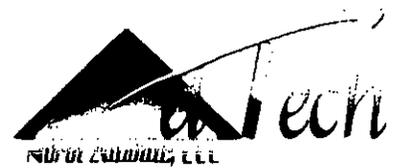
Assumed Concrete Temperature Range = 70° - 85° deg. F

Higher Concrete Temperature requires increase in dosage of Plastiment @ rate of 1 oz / 100lbs of cement for every 10° -15° F

Maximum Dosage rate of Plastiment is considered to be 4 oz/100# of cementitious materials for normal use in concrete. Where extended Retardation is required dosage rate may be increased.

Please contact Local Representative for more information and assistance.

Submitted by:  
Mark Shpungin  
Concrete Technologist



**Re- Dosing with**

**Sikament 686**

Slump	Dosage Rate @		
	Concrete Temperature °		
Increase	50 F - 90F	>90F	
1" - 2"	.5 - 1	1	oz/100 lbs of Cementitious Materials.
2" - 3"	1 - 2	2 - 3	oz/100 lbs of Cementitious Materials.
3" - 4"	2- 3	2.5 - 3.5	oz/100 lbs of Cementitious Materials.
4" - 5"	2.5-3.5	3 - 4	oz/100 lbs of Cementitious Materials.
			oz/100 lbs of Cementitious Materials.

Steps to Proper Re-Dosing of Sikament - 686:

1. Determine & Measure proper Dosage of Sikament-686.
2. Reverse the drum to the point of just before unloading.
3. Add the Admixture into concrete, add water ( app. 1 gal.) to wash the fins off the drum.
4. Mix concrete at full speed for at least 2 minutes.
5. Reverse the drum to point of just unloading.
6. Continue mixing at full speed for additional 1 minute.
7. Start unloading concrete - visually inspect it, measure slump , if necessary.

**NOTES:**

Chart provided above is for re-dosing only. To determine the initial Dosage Rate for proper water reduction and slump, Trial Batches should be conducted.

Re-dosing should be an exception to the rule. If concrete arrives to the job site consistently with low slump, dosage Rate of Sikament-686 should be adjusted at point of batching.

To prevent slump loss, the drum should be agitating @ 2 - 6 r.p.m., while in transit or waiting to unload.

Mix concrete at full speed prior to unloading for slump evaluation for at least **45 seconds**.

Provided chart is for use when **ambient temperature** range is between **50F and 80F**.

Concrete and Ambient Temperatures may effect rate of hydration of cement, and hence re-dosing amounts.

Lower ambient temperatures will require reduced amount of Admixture, higher temperatures - increased amount.

Concrete older than 90 minutes from time of Batching will require higher dosages as well.

Maximum Dosage Rate of Sikament 686 typically do not exceed 25 oz/100 # of cementitious materials .

Some factors may affect the total use of Superplasticizers and require increase of dosage rate over recommended

maximum dosage rate. Please contact Local Representative for use of Sikament 686 above recommended maximum dosage rate.



No change or addition to the terms of this purchase order shall be valid unless in writing and signed by the party to be charged; acceptance by the vendor is limited to the terms contained in this purchase order; and the agreement between the parties formed by this purchase order and the acceptance of the vendor may not be supplemented by course of dealing or usage of trade or by course of performance. Send invoice showing our PO number and vendor number to the Disbursements Section, Accounting Division, 1 PATH Plaza, JERSEY CITY, NJ 07306.

Page 1 Of 2  
 PO Number/Date  
 4300001858 / 06/30/2010



**THE PORT AUTHORITY OF NY & NJ**

1 Madison Avenue, 7th Floor, New York NY 10010

Vendor No. 116067  
 QUADROZZI CONCRETE  
 CORPORATION  
 73-02 AMSTEL BLVD.  
 ARVERNE NY 11692  
 Telephone# 718-474-4333  
 Fax# 718-318-2801  
 Your person responsible Carl Adler

**ACKNOWLEDGEMENT ORDER**

Our fax number  
 212-435-3958  
 Deliver to Address:  
 Port Authority Technical Center  
 241 Erie Street - Room 105  
 Jersey City NJ 07310  
 Deliver to this address unless a different address is shown below.  
 Recipient: Richard Peck  
 Unloading Pt: PABT

Notice: Unless otherwise provided, complete shipment of all items must be made in one delivery. Payments will not be made on partial deliveries unless authorized in advance by the party to be charged and discount will be taken on total order. Ship no goods C.O.D. or transportation charges collect, unless otherwise specified.

Payt. terms: Net 30 Days

Quantity	Description	Unit Price	Total
1 LOT	<p>DO NOT DUPLICATE THIS ORDER. REFER TO INVOICE #C100604, dated 6/4/10. DELIVERY OF REDI-MIX CONCRETE.</p> <p>FACILITY CONTACT PERSON: RICH PECK @201-216-2117</p> <p>Delivery of after hours Redi-MixConcrete            Deliv. date 08/04/2010</p> <p>QUESTIONS CONCERNING UNPAID INVOICES MUST BE ADDRESSED TO DISBURSEMENTS AT (201) 216-6372.</p> <p>Freight Terms FOB Delivery Point, Freight Incl.            Contact person/Telephone            Dinesh Chheda/212-485-3932</p>	5,150.00	5,150.00

Total Delivered Price In USD

5,150.00

Sales to the Port Authority, as an instrumentality of the states of New York and New Jersey, are exempt from taxation, in those two states, and from federal taxation, including excise taxes. Certificate of Registry for tax-free transactions under Chapter 32 of the Internal Revenue Code No. 13-730078K. The vendor therefore certifies that there are no such taxes included in the prices shown hereon. The vendor shall retain a copy of the purchase order to substantiate the exempt sales.

*Dinesh Chheda*

For Director,  
 Procurement Department

## TERMS AND CONDITIONS

1. To be valid, this purchase order must be signed by the Director of Procurement of the Port Authority (PA), or her designee.
2. Unless otherwise provided, complete shipment of all items must be in one delivery, FOB delivery point, freight included. Payment will not be made on partial deliveries unless authorized in advance by the party to be charged and the discount, if any, will be taken on the total order.
3. Standard PA payment terms are net 30 days, unless otherwise stated.
4. Sales to the PA and to Port Authority Trans-Hudson (PATH) are currently exempt from New York and New Jersey State and local taxes and generally from federal taxation. The seller certifies that there are no federal, state, municipal or any other sales taxes included in the prices shown hereon.
5. Unless the phrase "No substitute" is indicated, bidder may offer alternate manufacturer/brands, which shall be subject to Port Authority Approval. Please indicate details of product being offered with bid.
6. If the vendor fails to perform in accordance with the terms of this purchase order, the PA may obtain the goods or services from another contractor and charge the seller the difference in price, if any, plus a reletting cost of \$100, plus any other damages to the PA.
7. The vendor may subcontract the services including using a supplier for the furnishing of materials required hereunder, to such persons or entities as the Manager, Purchasing Services may from time to time expressly approve in writing. All further subcontracting shall also be subject to such approval.
8. Upon request, vendors are encouraged to extend the terms and conditions of this agreement with the PA to other government and quasi-government entities by separate agreement.
9. If the vendor's office set forth herein is not located in the states of New York or New Jersey, this agreement shall be construed in accordance with the laws of the State of New York, not including conflict of law provisions.
10. All notices in connection with this agreement shall be sent by the vendor to the Port Authority of NY & NJ, Manager, Purchasing Services Division, One Madison Ave. - 7th floor, New York, New York 10010.
11. The vendor shall not issue nor permit to be issued any press release, advertisement, or literature of any kind, which refers to the Port Authority or to the fact that goods have been, are being or will be provided to it and/or that services have been, are being or will be performed for it in connection with this Agreement, unless the vendor first obtains the written approval of the Port Authority. Such approval may be withheld if for any reason the Port Authority believes that the publication of such information would be harmful to the public interest or is in any way undesirable.

**QUADROZZI CONCRETE CORP.**

**INVOICE No. C100604**

**P.O. BOX 920179, ARVERNE, NY 11692-0179**

**DATE June 4, 2010**

**TEL. (718) 474-4333 Fax (718) 318-2801**

**DATE MAILED**

B I L L	Company Name	The Port Authority Of Ny & NJ	S H I P	Contract No.	
	Street	241 Erie Street		Project Name	Port Authority Bus Terminal
	Address (2)	Room 301		Location	41 Street & 8th & 9th Avenue
T O	City/State/Zip	Jersey City, NJ 07302	T O	Owner/Agency	Port Authority Of Ny & NJ

		QUANTITY	TYPE/SIZE	COST PER UNIT	TOTALS
6/4/2010	5000 psi Pump	3	CY	\$ 103.00	\$ 309.00
	Plant Opening	1	EA	\$ 3,028.00	\$ 3,028.00
	Post Freight	1	EA	\$ 1,663.00	\$ 1,663.00
	3% Administration Fee				\$ 150.00
				<b>TOTAL</b>	<b>\$ 5,150.00</b>