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*******SUBMITTAL COVER SHEET*******

Date:

Submittal Number:

Project:

Shop Drawing:

Specification Section:

Vendor(s)/Subcontractor:

Products/Description:

Note(s):

STANDARD MATERIALS, LLC

READY MIX CONCRETE SINCE 1953

April 9, 2014

M Natal Contractor, Inc.
394 Voters' Road
Slidell, LA 70461-3517

Attention: Kristen Tarleton

RE: City of Slidell – CDBG Sidewalk Improvements\
CDBG Phase V 5000-21B
Washington Ave.
Slidell, LA

MIX NO.:	025-F	4000 PSI @ 28 Days / Fiber 1.5 lbs.	<i>Sidewalks</i>
	025-C	4000 PSI @ 28 Days / Pea Gravel	<i>Curb Mix</i>

Gentlemen:

The attached concrete mix designs utilizing the appropriate ASTM C-33 or ASTM C-330 aggregates is proposed for use on the above referenced project for ready mix concrete to be furnished by Standard Materials, LLC.

Standard Materials certifies that the above mix designs, when ordered by specified design identity, will meet or exceed the indicated design strength at a designated age when tested in accordance with the applicable and current ASTM Standards C 31, C 39, C 78, C172, C 293, applicable provisions of C 94, and evaluated in accordance with applicable provisions of the ACI 318 Building Code.

Please contact us if you have any questions or require any additional information. Please notify Standard Materials of approval of the proposed mix designs prior to their use.

Sincerely,

Standard Materials, LLC

Brian S. Moore
Quality Assurance Manager

Telephone 985-863-6304 - Fax 985-863-6303
62505 Highway 11 - Pearl River, Louisiana 70452

Standard Materials, LLC

Mix Design Proposal

MIX #: 025-F MIX DESCRIPTION: 4000 PSI / Fiber 1.5 lbs TYPE: Normal Weight

PROJECT: CDBG Sidewalk Improvement CLASS: 4000 PSI @ 28 Days
 ADDRESS: Washington Ave Flex @ _____
 LOCATION: Slidell, LA PUMPABLE: Yes
 APPLICATION: Sidewalks ADDITIVES: _____

CONTRACTOR: M Natal Construction TO BE ORDERED BY CONTRACTOR

CEMENTITIOUS	ASTM	TYPE	BRAND	SP/GRAV	S.S.D. WEIGHTS
CEMENT	C-150	I/II	HOLCIM	3.15	<u>436</u> LBS.
FLYASH	C-618	C	HEADWATERS	2.80	<u>109</u> LBS.

AGGREGATES	ASTM	MATERIAL	SIZE	SP/GRAV	S.S.D. WEIGHTS
FINE	C-33	SAND	Minus 3/8"	2.62	<u>1243</u> LBS.
COARSE #1	C-33	GRAVEL	1.0"	2.54	<u>1775</u> LBS.

MIXING WATER----- POTABLE----- 250 LBS.

WATER REDUCING ADMIXTURES ASTM-494					
SET	TEMP	BRAND	TYPE	MANUFACTURER	DOSAGE PER CY.
NORMAL	<85	MasterPolyheed 997	A / F	BASF	<u>21.80</u> OZS.
RETARDER	>85	MasterSet R 300	D	BASF	<u>21.80</u> OZS.

NOTE: Normal set water reducer dosages vary according to seasonal temperatures. Adjustments are based on the manufactures recommendations. Retarders and accelerators to adjust set times and HRWR will be used at the customers request and are priced separately.

AIR ENTRAINING ADMIXTURE			ASTM C-260
BRAND:	MasterAir AE 90	MANUFACTURER:	BASF <u>2.72</u> OZS.
		MIX DESIGN AIR CONTENT	<u>5.0</u> (+/- 2.0)%
W/C RATIO:	<u>0.459</u>	CEM. EQUIVALENCY:	<u>5.80</u> SACKS
			YIELD CU. FT. <u>27.00</u>

- 1) STANDARD MATERIALS WILL HONOR STRENGTH INDICATED AT A MAXIMUM 4" (+/- 1.0) SLUMP. (CAUTION: INDIVIDUAL PROJECT SLUMP SPECS MAY BE MORE RESTRICTIVE)
- 2) ICE, WHEN USED FOR TEMPERATURE CONTROL, REPLACES MIXING WATER POUND FOR POUND AND IS PRICED SEPARATELY.
- 3) FOR FLY ASH DESIGNS , W/C (Water Cementitious) RATIO IS COMPUTED USING CEMENT+FLY ASH PER ACI 211.1

Submitted By: _____

Date: 04/09/14

Standard Materials, LLC
 62505 US Hwy 11
 Pearl River, LA 70452
 025-F - 4000 PSI @ 28 Days

Cast date	Sample ID	Slump	% Air	Conc Temp	Air Temperature	7 Day PSI	28 Day PSI	Avg 3 - 28 Day	
08/02/2013	08-02-13	5.00	4.6	94	90	3135	5450	0.0	
08/07/2013	08-07-13	5.25	1.8	101	96	3300	5320	0.0	
08/16/2013	08-16-13	5.50	3.5	92	86	3300	5145	5305.0	
10/03/2013	10-03-13	6.00	3.5	84	84	3655	5315	5260.0	
10/09/2013	10-09-13	3.50	5.0	85	60	3200	5240	5233.3	
10/18/2013	10-18-13	4.25	5.5	78	59	3610	5645	5400.0	
12/03/2013	12-03-13	5.00	5.0	79	78	3050	4920	5268.3	
12/17/2013	12-17-14	3.00	4.5	67	43	3475	5320	5295.0	
12/18/2013	12-18-14	4.00	4.0	69	48	3355	5745	5328.3	
12/19/2013	12-19-14	6.00	5.0	72	64	3780	5250	5438.3	
02/08/2014	02-08-14	6.00	4.2	67	51	3715	5535	5510.0	
02/10/2014	02-10-14	3.25	5.9	70	52	3485	5205	5330.0	
02/14/2014	02-14-14	4.00	5.0	66	48	3395	5390	5376.7	
02/15/2014	02-15-14	2.00	5.3	70	42	3545	5425	5340.0	
02/24/2014	02-24-14	6.00	5.0	81	73	3790	5505	5440.0	
		4.580	4.50	78.0	65.0	3452.7	5360.7		Average
		1.270	1.02	11.0	18.2	231.7	205.3		STD
		2.00	1.8	66	42	3050	4920		Low
		6.00	5.9	101	96	3790	5745		High

Number of observations: 15

MasterAir[®] AE 90

Air-Entraining Admixture

Formerly MB-AE 90*

Description

MasterAir AE 90 air-entraining admixture is for use in concrete mixtures. It meets the requirements of ASTM C 260, AASHTO M 154 and CRD-C 13.

Applications

Recommended for use in:

- Concrete exposed to cyclic freezing and thawing
- Production of high-quality normal or lightweight concrete (heavyweight concrete normally does not contain entrained air)

Features

- Ready-to-use in the proper concentration for rapid, accurate dispensing

Benefits

- Improved resistance to damage from cyclic freezing and thawing
- Improved resistance to scaling from deicing salts
- Improved plasticity and workability
- Reduced permeability – increased watertightness
- Reduced segregation and bleeding

Performance Characteristics

Concrete durability research has established that the best protection for concrete from the adverse effects of freezing and thawing cycles and deicing salts results from: proper air content in the hardened concrete, a suitable air-void system in terms of bubble size and spacing, and adequate concrete strength, assuming the use of sound aggregates and proper mixing, transporting, placing, consolidation, finishing and curing techniques. MasterAir AE 90 admixture can be used to obtain adequate freeze-thaw durability in a properly proportioned concrete mixture, if standard industry practices are followed.

Air Content Determination: The total air content of normal weight concrete should be measured in strict accordance with ASTM C 231, “Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method” or ASTM C 173/C 173M, “Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.” The air content of lightweight concrete should only be determined using the Volumetric Method. The air content should be verified by calculating the gravimetric air content in accordance with ASTM C 138/C 138M, “Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete.” If the total air content, as measured by the Pressure Method or Volumetric Method and as verified by the Gravimetric Method, deviates by more than 1.5%, the cause should be determined and corrected through equipment calibration or by whatever process is deemed necessary.

Guidelines for Use

Dosage: There is no standard dosage for MasterAir AE 90 admixture. The exact quantity of air-entraining admixture needed for a given air content of concrete varies because of differences in concrete-making materials and ambient conditions. Typical factors that might influence the amount of air entrained include: temperature, cementitious materials, sand gradation, sand-aggregate ratio, mixture proportions, slump, means of conveying and placement, consolidation and finishing technique. The amount of MasterAir AE 90 admixture used will depend upon the amount of entrained air required under actual job conditions. In a trial mixture, use 0.25 to 4 fl oz/cwt (16-260 mL/100 kg) of cementitious material. Measure the air content of the trial mixture, and, if needed, either increase or decrease the quantity of MasterAir AE 90 admixture to obtain the desired air content.

In mixtures containing water-reducing or set-control admixtures, the amount of MasterAir AE 90 admixture needed may be somewhat less than the amount required in plain concrete.

Due to possible changes in the factors that can affect the dosage of MasterAir AE 90 admixture, frequent air content checks should be made during the course of the work. Adjustments to the dosage should be based on the amount of entrained air required in the mixture at the point of placement.

If an unusually high or low dosage of MasterAir AE 90 admixture is required to obtain the desired air content, consult your local sales representative. In such cases, it may be necessary to determine that, in addition to a proper air content in the fresh concrete, a suitable air-void system is achieved in the hardened concrete.

Dispensing and Mixing: Add MasterAir AE 90 admixture to the concrete mixture using a dispenser designed for air-entraining admixtures, or add manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount.

For optimum, consistent performance, the air-entraining admixture should be dispensed on damp, fine aggregate. If the concrete mixture contains fine lightweight aggregate, field evaluations should be conducted to determine the best method to dispense the air-entraining admixture.

Precaution

In a 2005 publication from the Portland Cement Association (PCA R&D Serial No. 2789), it was reported that problematic air-void clustering that can potentially lead to above normal decreases in strength was found to coincide with late additions of water to air-entrained concretes. Late additions of water include the conventional practice of holding back water during batching for addition at the jobsite. Therefore, caution should be exercised with delayed additions of water to air-entrained concrete. Furthermore, an air content check should be performed after post-batching addition of any other materials to an air-entrained concrete mixture.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterAir AE 90 admixture will neither initiate nor promote corrosion of reinforcing and prestressing steel embedded in concrete, or of galvanized floor and roof systems. No calcium chloride or other chloride-based ingredients are used in the manufacture of this admixture.

Compatibility: MasterAir AE 90 admixture may be used in combination with any BASF admixture, unless stated otherwise on the data sheet for the other product. When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture.

Storage and Handling

Storage Temperature: MasterAir AE 90 admixture should be stored and dispensed at 31 °F (-0.5 °C) or higher. Although freezing does not harm this product, precautions should be taken to protect it from freezing. If MasterAir AE 90 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

Shelf Life: MasterAir AE 90 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterAir AE 90 admixture has been exceeded.

Safety: Chemical goggles and gloves are recommended when transferring or handling this material.

Packaging

MasterAir AE 90 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterAir AE 90 admixture

Additional Information

For additional information on MasterAir AE 90 admixture, or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

* MB-AE 90 became MasterAir AE 90 under the Master Builders Solutions brand, effective January 1, 2014.

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MasterPolyheed® 997

Mid-Range Water-Reducing Admixture

Formerly PolyHeed 997*

Description

MasterPolyheed 997 admixture is a patented multi-component, mid-range water-reducing admixture. MasterPolyheed 997 admixture meets ASTM C 494/C 494M requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

Applications

Recommended for use in:

- All concrete applications where superior workability, pumpability and finishability qualities are desired, in particular, flatwork, pumped concrete and pervious concrete
- Concrete containing manufactured sand and harsh concrete mixtures

Features

- True mid-range water reduction (5-15%) and excellent performance across a wide slump range, especially the difficult slump range of 5-8 in. (125-200 mm)
- Superior workability, pumpability and finishability qualities even in concrete mixtures containing low amounts of cementitious materials
- Superior finishing characteristics for residential/commercial flatwork and formed surfaces

Benefits

- Significantly reduced placement and finishing time resulting in lower in-place concrete costs
- Higher strength at all ages
- Enhanced concrete durability
- Increased service life of concrete structures

Performance Characteristics

Mixture Data: 500 lb/yd³ (295 kg/m³) of Type I cement; slump 6-7 in. (150-180 mm); 5-6% air; concrete temperature 70 °F (21 °C); ambient temperature, 70 °F (21 °C).

Setting Time Performance¹

Mixture	Initial Set (h:min)	Difference (h:min)
Reference	6:01	—
MasterPolyheed 997 admixture @		
5 fl oz/cwt (325 mL/100 kg)	6:22	+0:21
10 fl oz/cwt (650 mL/100 kg)	6:57	+0:56
15 fl oz/cwt (980 mL/100 kg)	7:31	+1:30

Compressive Strength, psi (MPa)

Mixture	7-Day	28-Day
Plain	2360 (16.3)	3320 (22.9)
MasterPolyheed 997 admixture @		
5 fl oz/cwt (325 mL/100 kg)	3060 (21.1)	3930 (27.1)
10 fl oz/cwt (650 mL/100 kg)	3740 (25.8)	4610 (31.8)
15 fl oz/cwt (980 mL/100 kg)	4620 (31.9)	5460 (37.7)

¹Note: The data shown are based on controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result of differences in concrete making materials and jobsite conditions.

Guidelines for Use

Dosage: MasterPolyheed 997 admixture has a recommended dosage range of 3-15 fl oz /cwt (195-980 mL/100 kg) of cementitious material for most concrete mixes.

As the dosage of MasterPolyheed 997 admixture increases to 15 fl oz/cwt (980 mL/100 kg) of cementitious materials, normal concrete setting characteristics are maintained and early and ultimate compressive strengths increase.

BASF does not recommend the use of dosages outside the recommended range without trial testing. Consult your local sales representative for assistance in determining the dosage for optimum performance.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterPolyheed 997 admixture will neither initiate nor promote corrosion of reinforcing or prestressing steel embedded in concrete, or of galvanized steel floor and roof systems. MasterPolyheed 997 admixture does not contain intentionally added calcium chloride or other chloride-based ingredients.

Compatibility: MasterPolyheed 997 admixture may be used in combination with any BASF admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture.

Storage and Handling

Storage Temperature: If MasterPolyheed 997 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterPolyheed 997 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterPolyheed 997 admixture has been exceeded.

Packaging

MasterPolyheed 997 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterPolyheed 997 admixture

Additional Information

For additional information on MasterPolyheed 997 admixture or its use in developing concrete mixtures with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

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Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

* Polyheed 997 became MasterPolyheed 997 under the Master Builders Solutions brand, effective January 1, 2014.

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MasterSet® R 300

Set Retarding Admixture

Formerly Pozzolith 300 R*

Description

MasterSet R 300 ready-to-use, liquid admixture is used for making more uniform and predictable high-performance concrete while retarding its setting time to facilitate placing and finishing operations.

It meets ASTM C 494/C 494M requirements for Type B, retarding, and Type D, water-reducing and retarding, admixtures.

Applications

Recommended for use in:

- Prestressed concrete
- Precast concrete
- Reinforced concrete
- Shotcrete
- Lightweight concrete
- Pumped concrete
- 4x4™ Concrete
- Pervious concrete
- Self-consolidating concrete (SCC)

Features

- Reduced water content required for a given workability
- Retarded setting characteristics
- Improved workability
- Reduced segregation
- Superior finishing characteristics for flatwork and cast surfaces
- Moderate to extended retardation – depending on the dosage rate
- Full-form deflection can take place (before concrete sets) in extended pours for bridge decks, cantilevers, nonshored structural elements, etc.

Benefits

- Flexibility in the scheduling of placing and finishing operations
- Offsets the effects of early hardening during extended delays between mixing and placing
- Helps eliminate cold joints
- Peak temperature and/or rate of temperature rise in mass concrete lowered thereby reducing thermal cracking
- Increased compressive and flexural strengths

Performance Characteristics

Concrete produced with MasterSet R 300 admixture will have rapid strength development after initial set occurs. It develops higher early (24-hour) and ultimate strengths than plain concrete when used within the recommended dosage range, under normal, comparable curing conditions.

When MasterSet R 300 admixture is used in heat-cured concrete, the length of the preheating period should be increased until initial set of the concrete is achieved. The actual heat-curing period is then reduced accordingly to maintain existing production cycles without sacrificing early or ultimate strengths.

Rate of Hardening: The temperature of the concrete mixture and the ambient temperature (forms, earth, reinforcement, air, etc.) affect the hardening rate of concrete. At higher temperatures, concrete hardens more rapidly which may cause problems with placing and finishing. MasterSet R 300 admixture retards the set of concrete. Within the normal dosage range, it will generally extend the working and setting times of concrete containing normal portland cement approximately 1 hour to 5 hours compared to that of a plain concrete mixture, depending on job materials and temperatures.

Trial mixtures should be made with job materials approximating job conditions to determine the dosage required.

Guidelines for Use

Dosage: MasterSet R 300 admixture is recommended for use at a dosage of 4 ± 1 fl oz/cwt (260 ± 65 mL/100 kg) of cementitious materials for most concrete mixtures using typical concrete ingredients. Because of variations in job conditions and concrete materials, dosages other than the recommended amounts may be required. In such cases, contact your local sales representative.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterSet R 300 admixture will neither initiate nor promote corrosion of reinforcing steel in concrete. This admixture does not contain intentionally-added calcium chloride or other chloride-based ingredients.

Compatibility: MasterSet R 300 admixture may be used in combination with any BASF admixture. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mix.

Storage and Handling

Storage Temperature: MasterSet R 300 admixture should be stored above freezing temperatures. If MasterSet R 300 admixture freezes, thaw at $35\text{ }^{\circ}\text{F}$ ($2\text{ }^{\circ}\text{C}$) or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

Shelf Life: MasterSet R 300 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterSet R 300 admixture has been exceeded.

Packaging

MasterSet R 300 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterSet R 300 admixture

Additional Information

For additional information on MasterSet R 300 admixture or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

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* Pozzolith 300 R became MasterSet R 300 under the Master Builders Solutions brand, effective January 1, 2014.

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BASF Corporation
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MATRIX MONOFILAMENT FIBERS

SPEC DATA SHEET



PRODUCT DESCRIPTION:

MATRIX monofilament fibers are manufactured from 100% homopolymer, virgin polypropylene resin, containing no reprocessed olefin materials, and in compliance with ASTM C-1116-97 “Standard specification for fiber-reinforced concrete and shotcrete.”

FRC Fibers are specifically engineered for use in concrete as secondary reinforcement, and for the purpose of controlling plastic shrinkage and settlement cracking.

FRC Fibers comply with requirements as defined in the 1997 Uniform Building Code – ICBO, and in the National Building Code – SBCCI, & Florida Building Code.

PRODUCT BENEFITS:

- Always positioned properly – providing multi-dimensional reinforcement
- Reduces the formation of plastic shrinkage cracking in concrete
- Approved alternative method to Welded Wire Fabric, when used as secondary reinforcement in plain concrete slabs on grade
- Improves impact, shatter, and abrasion resistance
- Enhanced durability and toughness
- Reduces permeability

PHYSICAL PROPERTIES:

Specific Gravity	0.91	Ignition Point	590° C
Tensile Strength	70 – 110 ksi	Melt Point	160° C
Modulus of Elasticity	500 ksi	Absorption.....	Nil
Fiber Length	3/4 in	Alkali Resistance	Excellent
Fiber Denier	7-10 dpf	Chemical Resistance.....	Excellent

◆ Manufactured to the requirements of:.....ASTM C-1116-97 Type III 4.1.3

MANUFACTURER'S RECOMMENDATIONS:

FRC synthetic fibers should be added at a minimum dosage rate between .75 to 1.0 lbs, unless otherwise specified. MATRIX Monofilament Fibers are packaged in pre-measured, ready for concrete, water soluble bags – designed to be introduced into the mix at any time before, during, or after the Ready-Mixed Concrete. FRC recommends proper mixing procedures as specified in ASTM C94.

PLACEMENT and FINISHING:

FRC recommends that the standard practices detailed in ACI 302 for placing, finishing, and curing concrete be followed when using synthetic fiber-reinforced concrete.

FRC hopes the information given herein is helpful. All information is based on test data and knowledge considered to be true and accurate, and is offered for the user's consideration, investigation, and verification. No warranty is expressed or implied regarding the results to be obtained from the use thereof. Each user must determine the suitability of the product(s) for their own particular application.

FIBER MINI SPECIFICATION:

Use only 100% virgin multifilament polypropylene fibers containing no reprocessed olefin materials and specifically engineered and manufactured for use in concrete as secondary reinforcement. (**MATRIX** Fibers)

Fibers are for the control of cracking due to drying shrinkage and thermal expansion and contraction of the concrete, increased impact, abrasion and shatter resistance. Fiber manufacturer must be in compliance with applicable building codes and ASTM C-1116 Type III, 4.1.3. Contact *FRC INDUSTRIES, 107 Bulldog Road * Freeport, FL 32439 * 888-783-2517 **
www.frcindustries.com

WARRANTY AND LIMITATION OF LIABILITY:

Product sold herein is of merchantable quality to seller's standards and specifications. Seller's sole liability for claim shall be limited to replacement of defective or nonconforming product. In no event shall seller be liable for any special, incidental, consequential, or exemplary damages.

FRC Industries

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