

PROCUREMENT / CONTRACT SUBMITTAL	
APW <input checked="" type="checkbox"/>	AP <input type="checkbox"/>
A <input checked="" type="checkbox"/> conforms to the Contract Requirements	
B <input type="checkbox"/> Minor Comments - Approved With Exceptions as Corrected	
<input type="checkbox"/> Re-submittal required	<input type="checkbox"/> Re-submittal not required
C <input type="checkbox"/> Not Approved - Revise and Resubmit	
Sign: MATTHEW NIEMI	Date: 8/28/2025

ORIGINAL



CPCCo Contractor Document Submittal

Vendor/Subcontractor:	INTERMECH INC.
Contract Release No.:	91851-000
Submittal Number:	91851-000-SUB-303 001 Rev 00
Submittal Title:	Final Grout Mix Design Substitution Request
Submittal Status:	A - Approved
Subcontract Submittal Type:	APW - Approve Prior to Work
Date Received:	8/21/2025
Project:	

Action	Name	Date Time
Document Control	SOPHIA BANDA	8/25/2025 9:44 AM
Reviewed By	SHANE DARROW	8/26/2025 8:13 AM
Approved By	VINCENT KING	8/28/2025 10:05 AM
BTR	MATT NIEMI	8/28/2025 11:15 AM

Comments / Discrepancies / Recommendations
CPCCo approves the Final Grout Mix Design Substitution submitted by the contractor.

Approved for Public Release;
Further Dissemination Unlimited

PROCUREMENT / CONTRACT SUBMITTAL
 APW APQ
 Conforms to the Contract Requirements
 Minor Comments - Approved With Exceptions as Corrected
 No Submittal required Submittal not required
 No Approval required
 Sign: MATTHEW NHEMI Date: 8/28/2025

**Central Plateau Cleanup Company
 CONTRACTOR DOCUMENT SUBMITTAL FORM**

(1) Project No.: 324 Bldg Grout & Fixative	(2) Contract No./Release No.: 91851	(3) Submittal Register No.: 303-001	(4) Version: 0	(5) Date Prepared: 08/21/2025
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(6) Contractor: Intermech, Inc <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Kyle Lindblom <small>Digitally signed by Kyle Lindblom DN: C=US, E=kylindblom@intermechinc.com, O=Intermech, Inc., CN=Kyle Lindblom Date: 2025.08.21 11:21:20-0700'</small> </div> <small>Signature / Date</small>	(7) To: Project Records Specialist MSIN: Received By E-mail: Project Records Specialist:	Phone: Fax: Date:
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(8) Qty/ E	(9) Document Number	(10) Rev	(11) No. of Pgs.	(12) Format (DWG, MFC, P3, GEN, PDF)	(13) Title / Description	(14) Approval Type (AP, APW)	(15) Associated SPEC OR SOW Ref. No.	(16) CPCCo Review Status				+
								A	B- NO	B- YES	C	
1	91851-000-SUB-303-001	0	21	PDF	Final Grout Mix Design Substitution Request	APW/E	01630	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X
								<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X
								<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X
								<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X

(17) Subcontractor Remarks *(If this is a re-submittal to a previously approved submittal then explain why it is being re-submitted here).*

(18) Reviewer Distribution: *(Hard OR Electronic)*

Name	Name	Name

(19) CPCCo Document Approver(s):	(20) Due Date Back To Approver(s):	(21) Due Date To Contractor:
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(22) Summary of Comments: *(If any)*

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08/20/2025

INTERMECH
Customer ID: 17577

Job:324 STAB
Job Location:Hanford, WA

Regarding Submittal: 324 STAB

Thank you for allowing us the opportunity to be your supplier of choice on the upcoming project 324 STAB located in at the above referenced location. The following submittal outlines the Portland Cement Concrete (PCC) mixtures we intend to supply which are based on our interpretation of your specific project needs, project documents, construction drawings, or contract documents that you have provided. In the attached submittal documents, you will find the following items:

- PCC Mix summary page outlining the intended mixes and their proposed use or line item
- Job Site Safety Evaluation Check List. We at American Rock Products hold safety as our highest priority and respectfully request you review the information on the checklist to ensure a safe working environment for all involved.
- Plant Certification(s)
- PCC Mix Design(s) – Outlining the mixture specific information and associated strength data.
- Mill Certificates for cementitious or supplementary cementitious materials
- Aggregate Certifications, if required.
- Admixture Information and Data Sheets
- Environmental Product Declaration, if required.
- Safety Data Sheets, if required.

We at American Rock Products always strive to provide you with timely service. Therefore, we recommend you place your orders in advance, typically one to two weeks, to assign a delivery time and schedule which meet your project requirements and will help avoid any undue project delays. We will accept same day orders, but in such cases, we cannot guarantee we will be able to supply the product(s) in a timely manner. Please place the order for concrete using the designated mix number provided in the following submittal by calling our dispatch office at (509) 546-5260, for Pendleton use 541-276-6951. Thank you for giving us this opportunity to be your supplier of choice and would like to reiterate that we at American Rock Products strive to provide you with the very best service and quality in all our lines of business. Please feel free to contact me if you should have any questions about this submittal or need any further assistance.

Contact:Mike Liniger
Phone:509-727-0000
Email:mike.liniger@americanrockproducts.com

Richland Plant, 2580 Hagen Road, Richland, WA 99352 ● Pasco Plant, 11919 Harris Road, Pasco, WA 99301 ● Walla Walla Plant, 1326 Dell Ave, Walla Walla, WA 99362 ● Prosser Plant 2505 Dump Road, Prosser, WA 99350 ● Hermiston Plant, 81830 U.S. Hwy 395, Hermiston, OR 97838 ● Boardman Plant, 71320 Columbia Blvd, Boardman, OR 97818

"An Equal Opportunity Employer"

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Sincerely, 
Name/Title _____ Mike Liniger / QC Manager

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Submittal Name: 324 STAB

08/20/2025

Customer ID: 17577
 INTERMECH

Job: ARP-WA2025-126 - 324 STAB
 Job Location: Hanford, WA

The following Portland Cement Concrete (PCC) mix design(s) are submitted for your review and approval:

Mix	Use	Spread	Air	W/CM	Specified Strength
301611490V	FILL	10" MIN	9%	0.85	100 psi @ 28 Days

- This information contained in this submittal is considered property of American Rock Products and cannot be duplicated or replicated without express written consent and no party other than those to whom this is addressed shall be entitled to use or rely upon the information contained herein.
- Approval of this mix design carries with it the implication that the PCC mix design(s) meet the minimum design requirements as set forth by the owner, design professional, governing body, or applicable contract documents.
- American Rock Products has no authority regarding the appropriate selection or application of any of its PCC mixtures. Therefore, it is the responsibility of the owner, owner's representative, architect of record, engineer of record, and/or contractor to insure the included PCC mixtures are appropriate for the anticipated use and environmental conditions of the intended placement of these mixes.
- The included PCC mixture(s) are designed to meet the stated strength, when test specimens are sampled, fabricated, transported, cured (initial & final), and tested in strict compliance with current ASTM Standards, and evaluated for acceptance per ACI standards and practices. Deviations from ASTM standard methods, unless expressly authorized for these mix designs, invalidate test results. American Rock Products reserves the right to conduct third party testing by an accredited independent laboratory to address any dispute resolution.
- Design mix cementitious content is stated as a minimum and American Rock Products reserves the right to increase the cementitious content to achieve the stated design strength. Chemical admixtures are added accordance with the manufactures' recommendations and may be adjusted to maintain mix properties. Aggregate weights may be adjusted to maintain yield and design gradations.
- Due to interruptions in the Cement and SCM supply chain we reserve the right to substitute Cement and SCM's as needed, if required a new submittal will be supplied.
- Due to interruptions in the Aggregate supply chain we reserve the right to substitute Aggregates as needed, if required a new submittal will be supplied.
- We respectfully request inclusion of American Rock Products on the distribution list for all concrete test results.

Thank-you for giving us the opportunity to be your supplier of choice. Please feel free to contact me if you should need any further assistance.

Sincerely,

Name/Title

Mike Liniger / QC Manager

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Sign: MATTHEW NIEMI Date: 8/28/2025

PCC Mix Information

ID 301611490V
 Mix Description PUMPABLE CDF
 Mix Use FILL
 Compressive Strength(*f*_c) 100 psi @ 28 Days
 Spread 10" MIN
 Air 9%
 Target W/CM Ratio 0.85
 Aggregate Size #4 (4.75mm)
 Total Mass 3329 lb
 Design Volume 27.00 ft³
 Unit Weight 123.29 lb/ft³

Job Information

Submittal 324 STAB
 Submittal Date 08/20/2025
 Company INTERMECH

Group	Material Description	Supplier	Absorption (%)	Specific Gravity	Mass (lbs.)	Volume (ft. ³)
Cement	AGDIL - ASH GROVE DURKEE IL CEMENT	ASH GROVE		3.15	125	0.636
Additive	DURASLAG - ASHGROVE DURASLAG	ASH GROVE		2.9	486	2.686
Aggregate	CSAND162 - CON SAND HANFORD	PS-R-182 RICHLAND	2.6 %	2.74	2191	12.815
Water	WATER-M - WATER METERED			1	520	8.333
Admixture	MBAE90 - MB AE-90 Dosage: 2 fl oz/yd ³	MASTER BUILDERS		1.015	0.132	0.00209
	POZZ-80 - MB POZZILITH-80 Dosage: 32 fl oz/yd ³	MASTER BUILDERS		1.2	2.502	0.03342
	MBXSEED - BASF XSEED 66 Dosage: 26 fl oz/yd ³	MASTER BUILDERS		1	1.694	0.02715
	VMA-358 - MB VMA 358 Dosage: 35 fl oz/yd ³	MASTER BUILDERS		1	2.281	0.03655
Air	Air					2.430

- Mix Notes:
- Actual batch weights will vary depending on the moisture contents of the sand and aggregate.
 - Non-chloride accelerating admixture may be used in concrete based on jobsite conditions at the contractor's request.
 - Set retarders may be used to control set times in hot weather or abnormally long hauls to the jobsite at the contractor's request.
 - Water Reducers may be used to adjust the plastic properties of mixtures, i.e. increase slump, at the contractor's request.
 - Hydration stabilizers and/or slump retention admixtures may be used to maintain plastic properties, i.e., delay set or maintain slump, during placement at the contractor's request.
 - Water added above the designed water content as stated in this design will void all warranties related to plastic and hardened properties of this product without express written consent from American Rock Products.

Submittal Notes

Spread: Min 10" in using ASTM D6103

Air Design is 9%. There is no tolerance. Air may be any value above or below the design.

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 Sign: MATHEW SHIMI Date: 08/20/2025



Concrete Compressive Strength Report

Sample Information

Sample No 1674817438/AR-2299
Mix ID 301611490V
Mix Name PUMPABLE CDF

Ticket Number 4861404
Customer INTERMECH

Date Batched 08/13/2025 07:28

Hauler VACEK, SHANE

Truck ID 560589

Sample Type Production

Sample Method Truck

Sampled By Dana Bradley

Properties

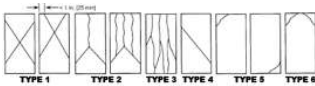
				Batch Information		
Test	Result	Unit		Batch Size	7	yd3
Air Content	15.0	%				
Spread	10.00	in				
Temp (Air)	78.0	°F				
Temp (Concrete)	83.0	°F				

Break Results

Type Cylinder **Method** ASTM C39
Curing Storage Tank
Capping Neoprene Pad **Design Strength** 100 psi @ 28 Days

ID	Test Date	Tested By	Age	Diameter, Height in	Area in2	Max Load lbf	Compressive Strength psi	% Design Strength
AR-2299A	08/20/2025		7 d	6, 12	28.27	30722	1087	
Average	08/20/2025		7 d			30722	1090	1090
AR-2299B	09/10/2025		28 d	6, 12	28.27			
AR-2299C	09/10/2025		28 d	6, 12	28.27			

Fracture Types



Mike Liniger / QC Manager

Combined Aggregate Blend Report

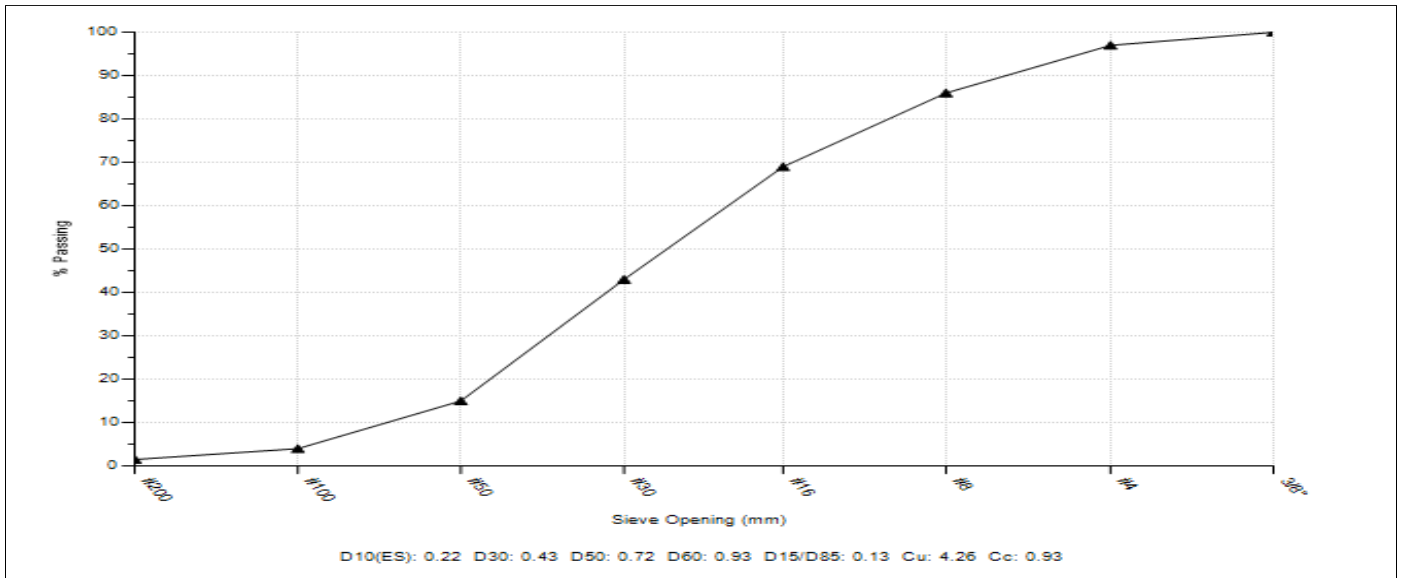
Mix ID 301611490V
Mix Name PUMPABLE CDF
Design Strength (f'c) 100 psi @ 28 Days
Specification

Nominal Max Size #4 (4.75mm)
Aggregate Volume 12.8
Coarse Aggregate % 0.0
Fine Aggregate % 100.0

% Passing Gradations

Aggregate Type Fine
 % Contribution 100

Sieve/Test	Spec	Result	CON SAND HANFORD
3/8" (9.5mm)		100.0	100
#4 (4.75mm)		97.0	97
#8 (2.36mm)		86.0	86
#16 (1.18mm)		69.0	69
#30 (.6mm)		43.0	43
#50 (.3mm)		15.0	15
#100 (.15mm)		4.0	4
#200 (75µm)		1.50	1.5
Pan		0.00	0.0



Fine Aggregate Blend Report

Mix ID 301611490V

Mix Name PUMPABLE CDF

Design Strength (f'c) 100 psi @ 28 Days

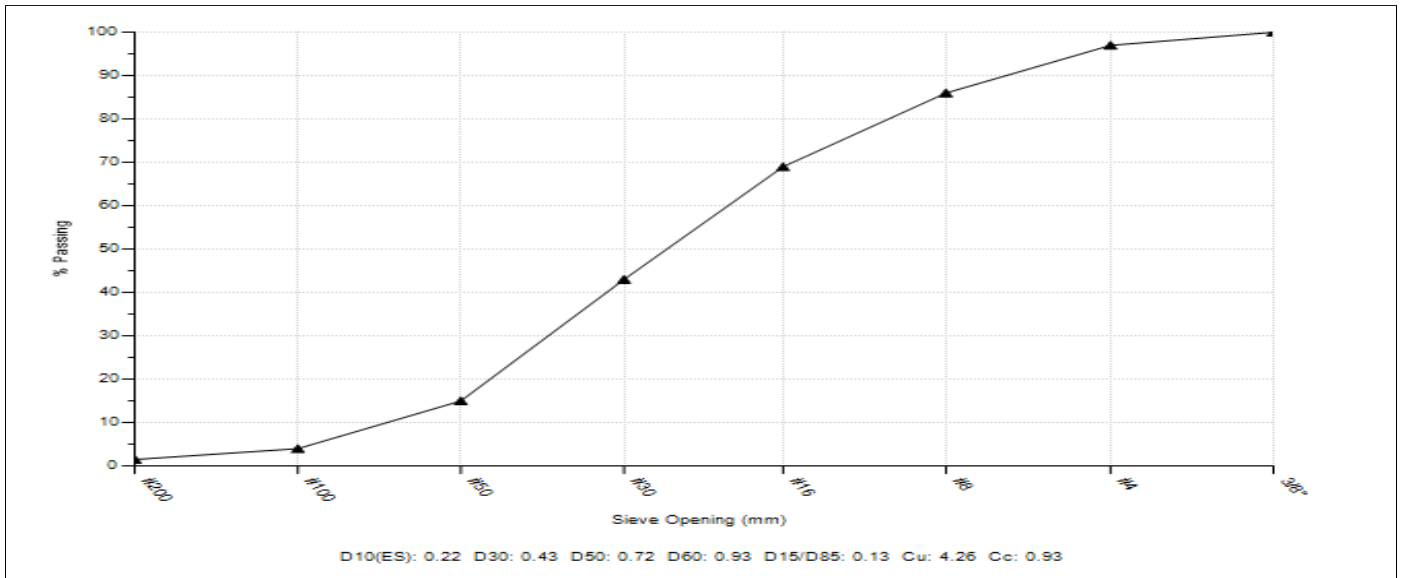
Specification

FM 2.86

% Passing Gradations

Aggregate Type Fine
 % Contribution 100

Sieve/Test	Spec	Result	CON SAND HANFORD
3/8" (9.5mm)		100.0	100
#4 (4.75mm)		97.0	97
#8 (2.36mm)		86.0	86
#16 (1.18mm)		69.0	69
#30 (.6mm)		43.0	43
#50 (.3mm)		15.0	15
#100 (.15mm)		4.0	4
#200 (75µm)		1.50	1.5
Pan		0.00	0.0



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Sign: MATTHEW NIEMI Date: 8/28/2025

ASH GROVE CEMENT COMPANY



Durkee Plant
 33060 Shirttail Creek Rd
 Durkee, Oregon 97905
 Phone #: (541)-877-2607

Blended Cement Type: IL(10) (HS)

Production Period: July 1, 2025 - July 31, 2025
 ASTM C595/C595M
 REQUIREMENTS

Date: August 12, 2025

Lot #: DK0825 TIL10

CHEMICAL		
Item	Spec. Limit	Test Result
Sulfate as SO ₃ (%)	3.0 max ^A	2.95
Loss on ignition (%)	10.0 max	4.7
Equivalent alkali content of portland cement (Na ₂ O _{eq} %) ^E	B	0.60
Limestone (%)	>5 and ≤15	9.5
CaCO ₃ + MgCO ₃ in limestone (%)	70 min	97
Optional information		
Equivalent alkali content of finished cement (Na ₂ O _{eq} %)	B	0.55

PHYSICAL		
Item	Spec. Limit	Test Result
Air content of mortar (volume %)	12 max	3.3
Blaine fineness (m ² /kg)	B	410
Fineness, No. 325 sieve (% retained)	B	1.1
Density (g/cm ³)	B	3.12
Compressive strength (psi)		
1 day	B	2,050
3 days	1,890 min	3,940
7 days	2,900 min	5,580
28 days ^C	3,620 min	7,070
Time of initial setting (Vicat)		
Not less than (minutes)	45	
Not more than (minutes)	420	127
Heat of hydration, C1702/C1702M, (kJ/kg) ^C		
3 days	B	296
Mortar bar expansion, C1038/C1038M, (%) ^C	0.020 max ^D	0.001
Sulfate resistance, C1012/C1012M, (%) ^C		
Expansion at 180 days	0.05 max	0.03

^A Default table maximum may be exceeded if Test Method ASTM C1038/C1038M limit is met.

^B Not applicable.

^C Test results for this production period may not be available and most recent test results provided (some data may be for information only).

^D Required only if percent SO₃ exceeds the limit in Table 1.

^E As per ASTM C1778, Portland Cement is defined as "Clinker + Gypsum" constituents and is to be used for calculating equivalent alkalis in the base cement.



We certify that the above described blended cement, at the time of shipment, meets the chemical and physical requirements of the ASTM C595/C595M Type IL(HS) and AASHTO M240 Blended Hydraulic Cement specifications.

Signature: 
 Name: Lucky Mclean

Title: Quality Manager

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 Sign: MATTHEW NIEMI Date: 8/28/2025



Location Portland Import Terminal Slag Product Dura Slag 100FHS Import Delivery Period May-25
 Source: Ha Tinh, Vietnam Date Issued 28-Jul-25
 Certification No. Slag 2-25

**STANDARD REQUIREMENTS
 ASTM C989 & AASHTO M302**

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
Slag Cement			Slag Cement		
Sulfide sulfur as S, %	2.5 max	0.64	325 mesh, % retained	20 max	1.6
Sulfate sulfur as SO ₃ , %	A	1.79	Blaine fineness, m ² /kg	A	476
Aluminum oxide as Al ₂ O ₃ , %	A	14.0	Air content of mortar, %	12 max	6.5
Chloride as Cl, %	A	0.12	Specific Gravity	A	2.92
Equivalent alkalies, %	A	0.28	Reference Type I Portland Cement		
Reference Type I Portland Cement			Compressive strength, MPa (PSI)	min:	
Equivalent alkalies, %	0.60 min	0.79	7 Days	A	32.1 (4650)
	0.90 max		28 Days	35 (5000)	40.8 (5910)
			50-50 Blend of Slag and Reference Cement		
			Compressive strength, MPa (PSI)	min:	
			7 Days	A	30.2 (4380)
			28 Days	A	52.1 (7550)
			Slag Activity Index, %		
			Grade 100	min:	
			Average of Last 5 Samples	7 Days	A 94
			Any Individual Sample	7 Days	A 93
			Average of Last 5 Samples	28 Days	95 128
			Any Individual Sample	28 Days	90 125

^ANot applicable

The slag cement meets the chemical and physical requirements of the
 ASTM C989/C989M-24 and AASHTO M 302-24 specifications for Grade 100.

Signature: David Buey

Title: Technical Services Manager

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.

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



3	03 30 00	Cast-in-Place Concrete
	03 40 00	Precast Concrete
4	03 70 00	Mass Concrete
	04 05 16	Masonry Grouting

MasterMatrix® VMA 358

Viscosity-Modifying Admixture

Formerly Rheomac VMA 358*

Description

MasterMatrix VMA 358 organic, viscosity-modifying admixture (VMA) is a ready-to-use, liquid admixture developed for producing concrete with enhanced viscosity and controlled rheological properties. Concrete with MasterMatrix VMA 358 admixture exhibits superior stability, thus increasing resistance to segregation and facilitating placement.

MasterMatrix VMA 358 admixture meets ASTM C 494/C 494M requirements for Type S, Specific Performance, admixtures.

Applications

Recommended for use in:

- Concrete containing “gap-graded” aggregates
- Lean concrete mixtures
- Concrete containing manufactured sand
- Concrete as a pumping aid
- Concrete as a finishing aid
- Concrete mixtures requiring “more body”
- Self-Consolidating Concrete (SCC)
- Liquid Sand program
- Pervious Concrete
- Self-Consolidating Grout

Features

- Modifies viscosity of concrete

Benefits

- Controls bleeding
- Reduces segregation, even with highly fluid concrete mixtures
- Enhances pumping and finishing
- Reduces sagging, helping plastic concrete maintain its shape on slopes and arches
- Facilitates production of highly fluid concrete mixtures such as SCC
- Facilitates placement of pervious concrete mixtures
- Superior and predictable in-place concrete properties
- Enhances surface appearance
- Flexibility in mixture proportioning
- Provides concrete stability during transport and placement

Performance Characteristics

Setting Time: MasterMatrix VMA 358 admixture has little to no impact on concrete setting time within the recommended dosage range of 2 to 10 fl oz/cwt (130 to 650 mL/100 kg) of cementitious materials.

Compressive Strength: MasterMatrix VMA 358 admixture does not affect the compressive strength of concrete. Slight increases in compressive strength have, however, been noted in SCC mixtures containing MasterMatrix VMA 358 admixture.

Workability: A slight decrease in slump or slump flow may be noted after the addition of MasterMatrix VMA 358 admixture due to the increase in concrete viscosity. If necessary, the slight decrease in slump or slump flow can be offset easily by a minor increase in water-reducing or high-range water-reducing admixture dosage. Very high slump flows can be achieved in SCC produced with MasterMatrix VMA 358 admixture.

Slump Retention: In general, the slump retention characteristic of concrete mixtures containing MasterMatrix VMA 358 admixture is similar to that of plain concrete.

Air Content: Typical dosages of air-entraining admixtures may be used to achieve the desired air content when using MasterMatrix VMA 358 admixture.

Guidelines for Use

Dosage: The recommended dosage range for MasterMatrix VMA 358 admixture is 2 to 10 fl oz/cwt (130 to 650 mL/100 kg) of cementitious materials for most concrete mixtures. A dosage of 2 to 6 fl oz/cwt (130 to 390 mL/100 kg) is recommended for typical concrete mixtures requiring “more body” to facilitate pumping and finishing procedures. A dosage of up to 10 fl oz/cwt (650 mL/100 kg) is recommended to provide stability in self-consolidating concrete mixtures. Because of variations in concrete materials, jobsite conditions and/or applications, dosages outside of the recommended range may be required.

Mixing: MasterMatrix VMA 358 admixture is typically added with the initial mix water. Alternately, MasterMatrix VMA 358 admixture may be added after all other concreting ingredients have been batched and thoroughly mixed, either at the batch plant or at the jobsite.

Product Notes

Compatibility: Do not use MasterMatrix VMA 358 admixture with admixtures containing beta-naphthalene sulfonate such as MasterRheobuild® 1000 admixture. Erratic behaviors in slump, slump flow and pumpability may be experienced. MasterMatrix VMA 358 admixture is compatible with most other admixtures used in the production of quality concrete including normal, mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set-control admixtures, corrosion inhibitors and shrinkage reducers. However a field trial is recommended to ensure appropriate performance.

Storage and Handling

Storage Temperature: MasterMatrix VMA 358 admixture must be stored at temperatures above 41 °F (5 °C) to avoid dispensing difficulties due to thickening. Do not allow MasterMatrix VMA 358 admixture to freeze since it cannot be reconstituted after thawing.

Shelf Life: MasterMatrix VMA 358 admixture has a minimum shelf life of 12 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 MasterMatrix VMA 358 admixture has been exceeded.

Dispensing: Consult your local sales representative for the proper dispensing equipment for MasterMatrix VMA 358 admixture. If dispensing directly from the 55 gal (208 L) drum, it is recommended that the larger 2 in. (50 mm) opening be used.

Packaging

MasterMatrix VMA 358 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterMatrix VMA 358 admixture

Additional Information

For additional information on MasterMatrix VMA 358 admixture or on 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.

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* Rheomac VMA 358 became MasterMatrix VMA 358 under the Master Builders Solutions brand, effective January 1, 2014.

MasterPozzolith® 80

Water-Reducing Admixture

Formerly Pozzolith 80*

Description

MasterPozzolith 80 ready-to-use, liquid admixture is used for making more uniform and predictable quality concrete.

MasterPozzolith 80 admixture meets ASTM C 494/C 494M requirements for Type A, water-reducing, Type B, retarding, and Type D, retarding and water-reducing, 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
- Controlled setting characteristics – normal or retarded

Benefits

- Increased compressive and flexural strengths
- Improved workability
- Reduced segregation
- Flexibility in the scheduling of placing and finishing operations
- Offsets effects of early stiffening during extended delays between mixing and placing
- Helps eliminate cold joints
- Full-form deflection can take place (before concrete sets) in extended pours for bridge decks, cantilevers, nonshored structural elements, etc.
- Peak temperature and/or rate of temperature rise lowered in mass concrete thereby reducing thermal cracking

Performance Characteristics

Rate of Hardening: The temperature of the concrete mixture and the ambient temperature affect the hardening rate of concrete. At higher temperatures, concrete stiffens more rapidly which may cause problems with placing and finishing. The dosage range of MasterPozzolith 80 admixture can be varied to provide the desired setting characteristics.

Guidelines for Use

Dosage: Depending on the setting characteristics desired, MasterPozzolith 80 admixture is recommended for use within the dosage range of 3-10 fl oz/cwt (195-650 mL/100 kg) of cementitious materials for most concrete mixtures using average 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: MasterPozzolith 80 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: MasterPozzolith 80 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 mixture.

Storage and Handling

Storage Temperature: MasterPozzolith 80 admixture should be stored above freezing temperatures. If MasterPozzolith 80 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: MasterPozzolith 80 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 MasterPozzolith 80 admixture has been exceeded.

Packaging

MasterPozzolith 80 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterPozzolith 80 admixture

Additional Information

For additional information on MasterPozzolith 80 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.

* Pozzolith 80 became MasterPozzolith 80 under the Master Builders Solutions brand, effective January 1, 2014.

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PROCUREMENT / CONTRACT SUBMITTAL
APW <input checked="" type="checkbox"/> AP <input type="checkbox"/>
A <input checked="" type="checkbox"/> conforms to the Contract Requirements
B <input type="checkbox"/> Minor Comments - Approved With Exceptions as Corrected
<input type="checkbox"/> Re-submittal required <input type="checkbox"/> Re-submittal not required
C <input type="checkbox"/> Not Approved - Revise and Resubmit
Sign: MATTHEW NIEMI Date: 8/28/2025

3

03 30 00

Cast-in-Place Concrete

03 40 00

Precast Concrete



Master X-Seed[®] 66

Water-Reducing and Strength-Enhancing Admixture

Description

Master X-Seed 66 is a patented, water-reducing and strength enhancing admixture that improves both early and late-age strength development in concrete, while supporting sustainable construction. Master X-Seed 66 admixture is based on a unique technology that facilitates improved cement hydration, thus enhancing strength development. It includes polycarboxylate technology that helps produce concrete mixtures with different levels of workability. Master X-Seed 66 admixture meets ASTM C494/C494M requirements for Type A, water-reducing, admixtures.

The strength-enhancing property of Master X-Seed 66 admixture permits a reduction in the total cementitious materials content of a given concrete mixture while maintaining compressive strength development equivalent to that of reference concrete, with associated benefits in CO₂ emissions reduction.

Applications

- Recommended for use in:
- Green Sense[®] Concrete
 - Ready-mixed concrete
 - Prestressed concrete
 - Precast concrete
 - Self-consolidating concrete (SCC)

Features

- Improves cement hydration
- Increases strength development - both early- (1-day) and late-age (28-day)
- Reduced water content for a given workability

Benefits

- Improved workability
- Provides a strength safety factor and/or expanded performance space
- Reduces in-place concrete costs when utilized in optimized concrete mixtures
- Permits higher replacement levels of supplementary cementitious materials (SCMs)
- Permits earlier stripping and reuse of forms
- Helps reduce CO₂ emissions associated with concrete

Particle Seeding Technology

Master X-Seed 66 admixture is based on a Master Builders Solutions proprietary technology that ensures a stable suspension of synthetically-produced crystalline CSH nanoparticles. These particles act as active seeds in a concrete mixture to facilitate the growth of active crystals between cement particles. The unique technology of Master X-Seed admixture provides an unmatched improvement of the hydration process in a concrete matrix which increases early- and late-age strength development compared to a reference untreated concrete mixture.

Performance Characteristics

Rate of Hardening: Master X-Seed 66 admixture is formulated to provide similar-setting characteristics compared to a reference untreated concrete mixture. The time of setting of concrete is primarily influenced by ambient and concrete temperatures, as well as the chemical and physical compositions of the basic ingredients of the concrete. Therefore, trial mixtures should be made with job materials to determine the dosage required for a given application.

Guidelines for Use

Dosage: Master X-Seed 66 admixture has a recommended dosage range of 4 to 10 fl oz/cwt (260 to 650 mL/100 kg) of cementitious materials. Because of variations in concrete materials, jobsite conditions and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local sales representative.

Mixing: Master X-Seed 66 admixture can be added with the initial batch water or as a delayed addition.

Product Notes:

Corrosivity – Non-Chloride, Non-Corrosive: Master X-Seed 66 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressing steel or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of Master X-Seed 66 admixture.

Compatibility: Master X-Seed 66 admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid-range and high-range water-reducing admixtures, air-entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers.

Do not use Master X-Seed 66 admixture with admixtures containing beta-naphthalene sulfonate. Erratic behaviors in slump, workability retention and pumpability may be experienced.

Master X-Seed 66 admixture has only been tested with other admixtures manufactured by Master Builders Solutions. Thus, use of Master X-Seed 66 admixture with non-Master Builders Solutions admixtures may produce unpredictable results. Master Builders Solutions denies any warranty expressed or implied with respect to any application using a non-Master Builders Solutions admixture in combination with Master X-Seed 66 admixture.

In architectural precast or concrete applications where color is a key performance metric, a mock-up is strongly recommended in accordance with industry guidelines to pre-qualify the concrete mixture with Master X-Seed 66 admixture.

Storage and Handling:

Storage Temperature: Master X-Seed 66 admixture must be stored at temperatures above 40 °F (5 °C). If Master X-Seed 66 admixture freezes, thaw and reconstitute by mechanical agitation. Do not use pressurized air for agitation.

Shelf Life: Master X-Seed 66 admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. If the product is not utilized within 1 month, agitation may be required, especially if stored at higher temperatures.

Packaging:

Master X-Seed 66 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: Master X-Seed 66 admixture

Additional Information

For additional information on Master X-Seed 66 admixture, or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

Master Builders Solutions, a brand of MBCC Group, is a global leader of innovative chemistry systems and formulations for construction, maintenance, repair and restoration of structures. The Admixture Systems business provides advanced products, solutions and expertise that improve durability, water resistance, energy efficiency, safety, sustainability and aesthetics of concrete structures, above and below ground, helping customers to achieve reduced operating costs, improved efficiency and enhanced finished products.

Utilizing worldwide resources, the Master Builders Solutions community of experts are passionate about providing solutions to challenges within all stages of construction, as well as the life cycle of a structure. At Master Builders Solutions we create sustainable solutions for construction around the globe.

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PROFESSIONAL ENGINEER
02910
0212
I am a duly Licensed Professional Engineer in the State of Washington
I am duly Licensed in the State of Washington
I am duly Licensed in the State of Washington
I am duly Licensed in the State of Washington

National Ready Mixed Concrete Association



Certificate of Conformance For Concrete Production Facilities

THIS IS TO CERTIFY THAT

Hanford Plant 48, Richland, WA
American Rock Products

has been inspected by the undersigned licensed professional engineer for conformance with the requirements of the *Check List for Ready Mixed Concrete Production Facilities*. As of the inspection date, the facilities met the requirements for production by

*Central Mixing with Automatic Batching and Recordings of
Cementitious Materials, Aggregate, Water, and Chemical Admixtures*





Signature of Licensed Professional Engineer

February 19, 2024

Inspection Date

April 26, 2026

Certification Expiration Date

Exp 2/10/2026

This company will maintain these facilities in compliance with the *Check List* requirements and will correct promptly any deficiencies which develop.



Signature of Company Official

QC Manager

Title of Company Official

NOTICE: The Check List indicates only that plant facilities are satisfactory for the production of concrete when properly operated. Conformance of the concrete itself with specification requirements must be verified by usual inspection methods in accordance with sales agreements.

This certificate is issued by the National Ready Mixed Concrete Association on verification that the production facility conforms to the requirements of the NRMCA Certification of Ready Mixed Concrete Production Facilities, QC3. Unauthorized reproduction or misuse of this certificate may result in legal action.

Plant ID #: 802655

Certification ID #: 32009

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National Ready Mixed Concrete Association 66 Canal Center Plaza, Suite 250 • Alexandria • Virginia 22314