



The Chemical Company

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03 30 00	Cast-in-Place Concrete
03 40 00	Precast Concrete
03 70 00	Mass Concrete

MasterPolyheed® 900

Mid-Range Water-Reducing Admixture

Formerly PolyHeed 900*

Description

MasterPolyheed 900 ready-to-use mid-range water-reducing admixture is very effective in producing concrete with different levels of workability and with enhanced finishing characteristics. It is especially effective when used in lean concrete mixtures and/or concrete with manufactured sand. MasterPolyheed 900 admixture will meet ASTM C 494/C 494M requirements for Type A 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

- Provides excellent workability of plastic concrete
- Reduced water content for a given level of workability
- Provides up to 15% water reduction
- Can be used in a wide variety of concrete mixtures as a Type A admixture
- Provides faster setting compared to conventional water-reducing admixtures

Benefits

- Enhanced strength and durability properties of concrete
- Reduces effort required to finish
- Lowers in-place cost
- Increases service life of structures

Performance Characteristics

Setting Time: Concrete produced with MasterPolyheed 900 admixture sets faster than concrete treated with a conventional water-reducing admixture when used at higher dosages to achieve mid-range water reduction.

Compressive Strength: Concrete produced with MasterPolyheed 900 admixture achieves higher compressive strength at an early age compared to plain concrete and concrete mixtures produced with a conventional water-reducing admixture.

Mixture Data: 517 lb/yd³ (307 kg/m³) of Type I/II cement; slump 6 in. (150 mm); non-air-entrained concrete; admixture dosage adjusted for 9-10% water reduction.

Setting Time (h:min)

Mixture	Initial Set	Difference
Reference	5:00	—
Conventional Water Reducer	6:12	+1:12
MasterPolyheed 900 admixture	5:18	+0:18

MASTER®
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SOLUTIONS

Compressive Strength, psi (MPa)

Mixture	1-Day	7-Day	28-Day
Plain	1540 (10.6)	3800 (26.2)	5260 (36.3)
Conventional Water Reducer	1890 (13.0)	4460 (30.8)	5820 (40.1)
MasterPolyheed 900 admixture	2030 (14.0)	4370 (30.1)	5950 (41.0)

Note: The data shown are based upon 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: The recommended dosage range for MasterPolyheed 900 admixture is 3 to 15 fl oz/cwt (195 to 980 mL/100 kg) of cementitious materials for most concrete mixtures. A dosage range of 5 to 8 fl oz/cwt (325 to 520 mL/100 kg) is typical for most Type A applications and up to 15 fl oz/cwt (980 mL/100 kg) for mid-range water-reducing requirements. Because of variations in concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local sales representative.

Mixing: For maximum working time, the addition of MasterPolyheed 900 admixture should be delayed during the batching process.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterPolyheed 900 admixture will neither initiate nor promote corrosion of reinforcing or prestressing steel embedded in concrete or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of MasterPolyheed 900 admixture.

Compatibility: MasterPolyheed 900 admixture is compatible with most admixtures and can be used in combination with other BASF admixtures, unless stated otherwise. When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture.

Storage and Handling

Storage Temperature: MasterPolyheed 900 admixture should be stored between 35 and 105 °F (2 and 41 °C). If MasterPolyheed 900 admixture freezes, thaw at 40 °F (5 °C) or above and completely reconstitute using mild mechanical agitation. **Do not use pressurized air for agitation.**

Shelf Life: MasterPolyheed 900 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 900 admixture has been exceeded.

Packaging

MasterPolyheed 900 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes, and by bulk delivery.

Related Documents

Safety Data Sheets: MasterPolyheed 900 admixture

Additional Information

For additional information on MasterPolyheed 900 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

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.

* Polyheed 900 became MasterPolyheed 900 under the Master Builders Solutions brand, effective January 1, 2014.

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Brampton, Ontario L6T 4M7
Tel: 800 387-5362 ■ Fax: 905 792-0851

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICAL	

ITEM BEING SUBMITTED (check only one)

- | | | |
|---|--|--|
| ☐ Shop Drawings | ☐ Certification / Qualifications | ☐ Coordination Drawing |
| ☐ Samples (____ copies) | ☐ Record Documents | ☐ Calculations |
| ☐ LEED Submittal | ☐ Product Data | ☐ Schedules |
| ☐ Other _____ | ☐ O&M Manuals | |

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By: **Devin D. Gates**

REVIEWED BY

DATE

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE
☐ A. No Exceptions Taken No further review of submittal is required.
☐ B. Make Corrections Noted Incorporate corrections in work; resubmission is not required.
☐ C. Revise and Resubmit Revise as noted, and resubmit for review.
☐ D. Rejected Submittal is not in compliance with Contract Documents; provide new submittal.
☐ E. For Record / Information Only Submittal was reviewed for Record / Information purposes only.
☐ F. Not Required for Review Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

SHOP DRAWING / SUBMITTAL REVIEW	
☒ NO EXCEPTION TAKEN	☐ EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
☐ REJECTED	
☐ REVIEWED FOR INFORMATION ONLY	☐ REVISE AND RESUBMIT AS NOTED
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of the construction, coordination of his work with that of all other trades and the satisfactory performance of his work.	
DAVID MASON & ASSOCIATES, INC.	
REVIEW BY: JYW	DATE: 06/03/2016

REVIEWED BY

DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0047

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 05/24/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Interior slab on grade mix design

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
☒ Shop Drawings		☒ Approval	☒ Approved as Submitted
☐ Letter		☐ Your Use	☐ Approved as Noted
☐ Prints		☐ As Requested	☐ Returned After Loan
☐ Change Order		☐ Review and Comment	☐ Resubmit
☐ Plans			☐ Submit
☐ Samples		SENT VIA:	☐ Returned
☐ Specifications			☐ Returned for Corrections
☐ Other:			☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		033000-22	1		05/24/2016	Interior slab on grade mix design	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates