GRT
ADMIXTURES
FOR CONCRETE

Polychem SA-50

Air Entraining Admixture

Polychem SA-50 is a specifically developed multi-component air entraining admixture which has been stabilized to produce an air-void system which is consistent with industry requirements and standards.

Polychem SA-50 is a reduced solids version of GRT's Polychem SA.

Polychem SA-50 when added separately will produce an air-void system that is equivalent or exceeds that of pure vinsol resin based admixtures at reduced dosage rates.

Polychem SA-50 is a synthetic based alpha-olefin that will produce a small, more well defined and spaced bubble structure, which is stabilized to be more efficient when used in the production of concrete mixtures which contain low alkali cement or supplementary cementitous materials.

Polychem SA-50 has been formulated specifically for ready-mix and precast concrete applications where the need for accurate dispensing with small load size may be an issue.

Applicable Standards

Polychem SA-50 meets or exceeds the requirements of ASTM C 260, CRD C-13, and AASHTO M 154.
(Test results available upon request.)

Advantages

- Superior air-void systems which may be less affected by low alkali cements or cement chemistry
- Excellent durability in freeze-thaw applications due to consistent bubble size and spacing in hardened concretes
- Improved resistance to salt scaling & sulfate related deterioration
- Reduces bleeding
- Reduced segregation and increased workability
- Reduces "bug holes" and produces a more even and smoother finish
- May aid in the finishing of concrete
- Dosage rates are usually half of vinsol resin based admixtures
- More consistent and effective with fly ash and other supplementary cementitious materials
- More efficient in low-slump applications (paving)

Dosage Rates

.50 to 3.0 fl/oz/100 cementitious material. Field tests will determine the proper dosage for each set of materials (Some concrete mixtures may require higher dosage rates).

Suggested Specification

All concrete shall have an air-entraining admixture conforming to ASTM C 260 (such as **Polychem SA-50)** which is manufactured by GRT. Dosage rate will vary and should be verified by testing the concrete mixture prior to production.

Concrete mixtures should be tested regularly during production to verify that the air content meet the technical requirements and project specifications.

Warranty

General Resource Technology warrants **Polychem SA-50** to be free from defects in materials and manufacture. GRT is not responsible for conditions outside it's control; including other materials, workmanship, design, inspection, supervision, labor, ambient temperature and field conditions, which are the proper responsibility of others.

General Resource Technology, Inc. ■ 2978 Center Court ■ Eagan, Minnesota 55121-1257
Sales: (800) 324-8154 ■ Corporate: (651) 454-4151 ■ Fax: (651) 454-4252
Visit our Web Site: www.grtinc.com

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

DEVIN D GATES
SUBMITTED BY

033000-01
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

033000
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

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

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

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

DEVIN D GATES
REVIEWED BY

041516
DATE

To be completed by Reviewer

03 3000-001
CANNON DESIGN SUBMITTAL NUMBER

4/15/16
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 / DMA DATE: 04/19/2016

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0016

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 04/15/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Footing and foundation wall 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	☑ Attached	☐ Returned for Corrections
☑ Other: Mix design	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		033000-01	1		04/15/2016	Footing and foundation wall mix design	Open

NOTES:

CC:

Signed: _____

Devin Gates

KCI Construction Company, Inc.
ST. LOUIS: 10315 Lake Bluff Drive | St. Louis, MO 63123
LEBANON: 119 West Fremont | Lebanon, MO 65536

O: 314.894.8888
F: 314.894.7418
www.kciconstruction.com

SUBMITTAL TRANSMITTAL

Date Sent: 04/08/2016

Project: Webster University – Interdisciplinary Science Building

Project #: 16-008

Subject: 03 3000 Cast-In-Place Concrete – Footing & Foundation Wall Mix Designs

Submittal ID: 0001

Type: Submittal

Purpose: For Approval

Sent Via: Email (PDF)

Transmitted To:

Devin Gates
Paric
77 Westport Plaza, Suite 250
St. Louis, MO, 63146
Phone: (636) 561-9592
Email: ddgates@paric.com

Transmitted From:

Kyle Nieman
KCI Construction Company
10315 Lake Bluff Drive
St. Louis, MO 63123
Phone: (314) 200-6486
Email: knieman@kciconstruction.com

Contents:

Qty: 1 Dated: 04/08/2016 Submittal Package No.: 0001 – 03 3000 – 00

Description: 03 3000-00_Cast-In-Place Concrete – Footing & Foundation Wall Mix Designs

Remarks: Please review and return at your earliest opportunity. Thanks,

Kyle Nieman 4/8/16

Kyle Nieman
KCI Construction Company

KCI Construction Company, Inc.
ST. LOUIS: 10315 Lake Bluff Drive | St. Louis, MO 63123
LEBANON: 119 West Fremont | Lebanon, MO 65536

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WEBSTER UNIVERSITY – INTERDISCIPLINARY SCIENCE BUILDING

St. Louis, MO

Submittal Description: Cast-In-Place Concrete – Footing & Foundation Wall Mix Designs

Submittal #: 0001 – 03 3000 – 00

Notes:

This submittal/drawing has been reviewed and found to be in general conformance with the contract documents.

APPROVED	X
APPROVED AS NOTED	
REVISE AND RESUBMIT	

03 3000
SPEC SECTION

04/08/2016
DATE

4/8/16

KYLE NIEMAN
KCI CONSTRUCTION CO.