Revision: July 7, 2010
Supersedes: May 11, 2009
Ref. #: W300

TECHNICAL DATA SHEET

OSI
Professional Grade Adhesives & Sealants

QB-300™ Multi-Purpose Construction Adhesive

Henkel Corporation
Professional and Consumer Adhesives
Avon, OH 44011
Phone 1-800-624-7767
Fax (440) 937-7067
www.henkel.com www.osipro.com

Where is this product being used and is it compatible with adjacent materials?

Item #	Package	Size
827628	Paper Cartridge	28 Fl. Oz.

DESCRIPTION

OSI® QB-300™ Multi-Purpose Construction Adhesive is a premium quality, waterproof adhesive formulated using synthetic rubber and tackifying resins. It is specially designed for the bonding and installation of all types of plastic foams and polystyrene including Styrofoam® brand plastic foam and Foamular® Extruded Polystyrene Insulation. When used as directed QB-300™ will not attack polystyrene and other plastic foams.

RECOMMENDED FOR:

This product is highly recommended for use with all types of vinyl covered gypsum board due to excellent initial tack and rapid bond development. It will not cause any staining, bleeding, or blistering. QB-300™ provides excellent adhesion to a wide variety of building materials including wood, fiberboard, metals, masonry, brick, concrete, marble, cork, insulation hangers, polystyrene bath panels, fiberglass, FRP panels, glass, glazed surfaces and much more. This adhesive also exhibits good heat resistance and is recommended for use in Fire-Rated wall and partition designs. For best results one surface should be porous.

NOT RECOMMENDED FOR:

- Applications requiring temperature resistance greater than 180°F (82°C)
- Bonding two non-porous surfaces

FEATURES & BENEFITS:

Feature	Benefits
Water resistant.....	Can be used for interior or exterior applications
High initial grab.....	Minimizes nailing requirements
Gap filling.....	Use on irregular surfaces. Bridging capabilities up to 1/4".

COVERAGE

For a 28 fl. oz. cartridge:
A ¼" (6 mm) bead extrudes approximately 85.8 ft (26.1 m).
A 3/8" (9.5 mm) bead extrudes approximately 38.1 ft (11.6 m).

DIRECTIONS

Tools Typically Required:
Utility knife, caulking gun or trowel, long, thin tool to puncture cartridge seal, hammer, nails or screws.

Safety Precautions:
Wear gloves. Wash hands after use. Interior applications require ventilation to the outside during application and cure.

Preparation:
Apply and cure between 20°F (-7°C) to 100°F (38°C). For best performance, use at temperatures greater than 65°F (18°C). Surfaces must be clean, dry and free of frost, grease, dust, release agents and other contaminants. To obtain maximum adhesion, surfaces should be flat and close fitting to provide adequate contact. Release agents must be removed from poured concrete. Newly poured concrete must be allowed to cure 28 days prior to adhesive application. Painted surfaces must be well cured and free of loose paint. Cut nozzle to desired bead size and puncture inner seal.

General Application Guidelines:
Apply no more adhesive than can be used in 25 minutes. After adhesive application, position board in place and press firmly over entire surface. Immediately pull away for approximately 2 minutes to allow the solvents to flash off. Reposition panel and press firmly into place. Use temporary bracing or blocking until adhesive sets. Adequate ventilation must be provided when used in all interior applications.

Application Methods:

1. Extruded Bead Method:
   For relatively smooth and level surfaces, apply a 3/8" round bead of adhesive the full length of a sheet of foam board 1" in from the edge. Then run an "X" bead from corner to corner through the field of the board. Alternate Method: Apply parallel beads 12 to 16" on center the full length of the foam board. For applications involving wood or metal framing members, apply a 3/8" continuous bead on each framing member. This method is easiest and most widely used in the industry.

2. Spot Method:
   This method works best for rough surfaces. Using a putty knife apply spots of adhesive to the surface of the board beginning at one corner and spacing the spots 8 to 12" on the center. Each spot of adhesive should be at least 1" across by ¾" high. Do not use this method on wood or metal studs.

3. Trowel Method:
   For greater surface contact and holding power, apply adhesive using a ¼" deep notched trowel over entire surface of the foam board or paneling, 1" in from the edges. This method is recommended for all specialty applications where almost immediate holding power is desired.

Applications:

Bonding Foam to Block or Concrete Walls and Ceilings:
Using one of the application methods mentioned above, press foam board tightly to surface within 10 minutes after adhesive has been applied. Use firm pressure over entire surface of board. Pull foam board away for approximately 2 minutes to allow solvents to flash off. Reposition foam and press firmly over entire surface to ensure proper bond. To speed up initial bonding power, repeat procedure as needed. Be sure to butt all joints tightly and plane application so that the joints of the finished material do not coincide with the foam joints. When bonding foam to ceilings, supplemental mechanical fasteners are required to hold foam in place until adhesive sets. Use at least 4 to 6 fasteners per 8 foot sheet of board. Supplemental mechanical fasteners are required when the wall or foam board exceeds 8 ft. in height for all wall applications.

Bonding Drywall, Vinyl Board or Paneling to Foam:
When bonding "pre-finished" materials to foam, it is recommended that the extruded bead method or trowel method be used. For bonding drywall to foam, use one of these two methods along with the Adhesive Nail-On Attachment Method. Press drywall firmly into place and perimeter nail 16" O.C. and 24" O.C. in the field of the board. Use permanent mechanical fasteners at least twice as long as the thickness of the foam to securely fasten drywall to the concrete or block wall.

When bonding vinyl board or paneling to foam, it is recommended that these pre-finished materials be "bowed" or pre-curved 24 hours prior to installation. Position boards within 10 minutes after adhesive application and press firmly into place. Pull board away for approximately 2 minutes to allow solvents to flash off. Reposition foam and press firmly over entire surface to ensure proper bond. Repeat as necessary. Mechanical fasteners are required at the top and bottom of the panels where moldings will be used. Temporary bracing or fasteners may be needed for at least 24 hours until the adhesive sets. Excess adhesive should be removed immediately.

Bonding Vinyl Covered Gypsum Board or Paneling to Wood or Metal Studs:
Apply a ¼" to 3/8" continuous bead of adhesive to each stud or framing member starting 3" down from the top of the stud and ending 3" from the bottom. Pre-decorated panels should be "bowed" or pre-curved prior to installation. Place panels in proper position and press firmly to framing members. Pull board away for approximately 2 minutes to allow solvents to flash off. Repeat as needed. Reposition panels and press firmly along each adhesive bead to ensure proper contact. Use mechanical fasteners at the top and bottom of each pre-decorated panel. Use of temporary bracing for at least 24 hours may be necessary until adhesive sets.

Insulated Panels for Low Temperature Structures (Includes walls, ceilings and floors):
Follow detailed installation procedures of the panel manufacturer when using adhesive. In all cases adhesive should be "flashed off" to ensure maximum grab and bonding power, especially in enclosed locations.

Tilt Wall Construction:
Using either the Spot Method or the Trowel Method, install each 2'x4' foam panel horizontally. Be sure to stagger all joints. Mechanical fasteners are required for this application and should be installed at each corner of a 2'x4' section and at least one in the field or center of each foam panel.

Clean-up:
Clean tools and uncured adhesive residue immediately with mineral spirits. Cured adhesive may be carefully cut away with a sharp-edged tool.

STORAGE AND DISPOSAL

NOT DAMAGED BY FREEZING. Store away from heat, flame and spark in a cool, well-ventilated area. Use an approved hazardous waste facility for disposal.

PRECAUTIONS

DANGER: EXTREMELY FLAMMABLE. Harmful or fatal if swallowed. Contains Hexane and other Petroleum Distillates. Prevent build-up of vapors. Vapors may cause flash fire. Use only in areas of cross-ventilation. Open all windows and doors. Keep away from heat, sparks or open flame. DO NOT smoke. Avoid prolonged breathing of vapors. Avoid skin contact. Do not take internally. **KEEP OUT OF REACH OF CHILDREN.**

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

TECHNICAL DATA

Typical Uncured Physical Properties

Color:	Tan
Appearance:	Thick paste
Base:	Synthetic Rubber and resins
Specific Gravity:	1.37
% Solids:	65%
Flash Point:	0°F (-18°C)
VOC Content:	280 g/L (20% by weight)
Shelf Life:	18 months from date of manufacture (unopened)
Lot Code Explanation: (Lot code is stamped on bottom plunger of cartridge)	YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year For example: 09061 = 61st day of 2009 = March 2, 2009

Typical Application Properties

Application Temperature:	Apply between 20°F (-7°C) and 100°F (38°C)
Open time:	30 minutes
Venting (Flashing) Time:	2 – 5 minutes
Repositioning Time:	10 – 20 minutes
Cure Time:	24 to 48 hours (Depending on atmospheric conditions.)
Odor:	Solvent (use in a well-ventilated area)

Typical Cured Performance Properties

Color:	Tan
Cured Form:	Non-Flammable, Rubbery solid
Service Temperature:	-20°C (-29°C) to 180°F (82°C)
Water Resistance:	Yes
Sandable:	No
Bridging Capabilities:	Up to ¾"
Specifications:	▪ Meets ASTM C 557 ▪ Tested in accordance with ASTM E 84 ▪ Recommended for use in Fire-Rated Systems ▪ Conforms to CGSB 71-GP-25M specifications
Shear Strength: (ASTM C 557) Plywood to Gypsum Board:	 24 hours = 28 psi 14 days = 114 psi
Tensile Strength: (ASTM C 557)	24 hours = 31 psi 14 days = 81 psi

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

Joe Voypick
SUBMITTED BY

042000-015
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

042000
SPECIFICATION SECTION / PARAGRAPH

Leonard Masonry
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

Joe Voypick
REVIEWED BY

7/8/16
DATE

To be completed by Reviewer

04 2000-015
CANNON DESIGN SUBMITTAL NUMBER

7/8/16
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

See comments in "green" below

REVIEWED BY

07/28/16
DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0127

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 07/08/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Clay Face Brick Product Data

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: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		042000-015	1		07/08/2016	Clay Face Brick Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

TRANSMITTAL LETTER

Leonard Masonry, Inc.

5925 Fee Fee Road
St. Louis, MO 63042

Transmittal # **945-02**

Date: 7/7/2016
Phone: (314) 731-5500
Fax: (314) 731-3366

Project Name: Webster University Interdisciplinary Science Building **Project #:** 945

To: Paric Corporation
Attn: Devin Gates
77 Westport Plaza Drive
Suite 250
St. Louis, MO 63146

SUBJECT: Submittal 945-02, Rev #0 Masonry materials

Phone: (636) 561-9500 **Fax:** (636) 561-9501

Items listed are being sent
- ☑ Enclosed
- ☐ Under Separate Cover
- ☐ Via

We are transmitting the following to you:

- ☑ Product Data
- ☐ Samples
- ☑ Submittals: Submittal 945-02, Rev #0 Masonry materials
- ☐ Shop Drawings
- ☐ O & M Manuals
- ☐ Plans
- ☐ Architectural Drawings
- ☐ Letters
- ☐ Specifications
- ☐ Prints
- ☐ Addenda
- ☐ Engineering Drawings
- ☐ Change Order Requests
- ☐

Submittal: Masonry materials - Rev#0

Code/Spec	Copies	For	Product #	Summary Item
042000-2.3	1	Approval		Face brick test report
042000-2.4	1	Approval		Type N mortar certification
042000-2.4	1	Approval		Type S mortar certification
042000-2.4E	1	Approval		Mortar color product data
042000-2.6C	1	Approval		Veneer anchor product data
042000-2.7	1	Approval		Flashing product data
042000-2.8A	1	Approval		Compressible filler product data
042000-2.8B	1	Approval		Bond-breaker product data
042000-2.8C	1	Approval		Weep vent product data
042000-2.8D	1	Approval		Cavity drainage material product data
042000-2.8	1	Approval		Termination bar product data
042000-2.9A	1	Approval		Cavity wall insulation product data
042000-2.9B	1	Approval		Insulation adhesive product data
042000-3.12E.5	1	Approval		Masonry cleaner product data

Remarks:

Specified veneer tie is not available with 1/4" diameter ties per manufacturers data sheet.

Potable water is to be supplied by owner/GC. No submittal provided.

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- ☐

COPIES TO:

By: Ken Westhoff
Project Manager

Received by: _____ Date: _____