TECHNICAL DATA SHEET

MULTI-PURPOSE CONSTRUCTION ADHESIVE

QB300

HEAVY DUTY SHEAR & CONSTRUCTION ADHESIVE

Description: OSI QB300 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. When used as directed OSI QB300 will not attack polystyrene and other plastic foams.

Available As:

Item #	Size	Color
827628	28 fl oz (828 ml)	Tan
827629	5 gallon pail	Tan

Features & Benefits:

- High Initial Grab Minimizes Nailing
- Interior/Exterior Application
- Bridges Minor Gaps in Framing
- Will Not Stain, Bleed or Blister Surfaces

Recommended For:

OSI QB300 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. OSI QB300 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 bonding two non-porous surface
- When using in enclosed areas or where surface temperatures exceed 90° F prior to curing, it is highly recommended that the adhesive be flashed off (panels be pulled way for 2-5 minutes) to prevent solvent and vapor build-up
- Do not use for applications requiring temperature resistance greater than 170°F (77°C)

Coverage:

For a 28 fl. oz. (828 mL) cartridge:

- A 1/4” (6 mm) bead extrudes approximately 86 ft. (26 m)
- A 3/8” (9.5 mm) bead extrudes approximately 38 ft. (12 m)

Typical Uncured Physical Properties:

Color:	Tan	
Appearance:	Thick paste	
Base:	Synthetic Rubber and resins	
Odor:	Solvent (use in a well-ventilated area)	
Specific Gravity:	1.369	
Flashpoint:	0°F (-18°C)	
Viscosity:	280,000 – 400,000 cps	
% Solids by Weight:	80%	
VOC Content:	<20% by weight	CARB
	280 g/l	SCAQMD rule 1168
Shelf Life:	18 months from date of manufacture (unopened)	
Lot Code Explanation:	**YYDDD** **YY=** Last two digits of year of manufacture **DDD=** Day of manufacture based on 365 days in a year Example: 14061 = 61st day of 2014 = March 2, 2014	

Typical Application Properties:

Application Temperature:	Apply between 20°F (-7°C) and 100°F (38°C) For best results, use at 70°F (21°C)
Open Time:	5 minutes
Venting (Flashing) Time:	2 to 5 minutes
Repositioning Time:	<5 minutes
Cure Time:	24 to 48 hours Time is dependent on temperature, humidity, porosity of substrate and amount of adhesive applied

Typical Cured Performance Properties:

Color:	Tan	
Cured Form:	Non-flammable, rubbery solid	
Service Temperature:	-20°F (-29°C) to 180°F (82°C)	
Water Resistant:	Yes	
Sandable:	No	
Bridging Capabilities:	Up to 1/4”	
Shear Strength:		ASTM C557
24 hours @ 73°F: 14 days @ 73°F:	40 psi 42 psi	
Tensile Strength:		ASTM C557
24 hours @ 73°F: 14 days @ 73°F:	29 psi 32 psi	
Specifications:	• Meets ASTM C 557 • Tested in accordance with ASTM E84 • Recommended for use in Fire-Rated Systems • Conforms to CGSB 71-GP-25M specifications	

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.

Application:

Bonding Foam to Block or Concrete Walls and Ceilings:
Using one of the application methods mentioned above, press foam board tightly to surface within 5 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 5 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 & 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.

Label Precautions:

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION.

DANGER! Contains petroleum distillates, n-hexane and crystalline silica. **EXTREMELY FLAMMABLE**. Vapors may ignite explosively. Do not use or store near heat, sparks or open flame. Do not smoke when using this product. Extinguish all flames and pilot lights and turn off all sources of ignition, including stoves, heaters and electric motors, during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. Use in a well ventilated area. Avoid breathing vapors. Avoid contact with eyes and skin. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area to obtain fresh air. Prolonged and repeated exposure to hexane can cause nerve damage to extremities, which may be permanent. Do not take internally. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center immediately. For eye contact flush with water for 15 minutes, call a physician. For skin contact wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF REACH OF CHILDREN.**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage or may cause cardiac arrhythmia. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Refer to the Safety Data Sheet (SDS) for further information.

Limited Warranty:

This product is warranted to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This limited warranty gives you specific legal rights, which vary from state to state. Henkel may be contacted at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET for warranty assistance.

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 SHEET

OSI Tougher than the Elements. For Professional Use Only. The Battle will be Fierce.
OSI works side by side with residential builders, contractors and remodeling professionals who use our products everyday on their jobsites. OSI combines this deep understanding with the sophisticated global innovation and manufacturing excellence of Henkel to make the world's best professional-grade caulks, sealants and adhesives.

1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET
www.ositough.com

OSI Brand is part of the Henkel family of brands. Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies.

Henkel Corporation - Professional & Consumer Adhesives Headquarters - Rocky Hill, CT 06067
www.henkelna.com

Revision Date: 07/27/2015 Supercedes: 07/31/2014 Ref. #: W300

HUNTER

15 Franklin Street – Portland, Maine 04101
Ph: 207.761.5678 / 888.746.1114 Fax: 207.775.1769 / 877.775.1769

To: Drew Johnson
Irwin Products
St. Louis MO

January 16, 2017

Re: Compatible sealants for Xci CG

For: Webster University

Hello Drew,

Any general construction grade adhesive, such as OSI QB300, is acceptable for use with Hunter Xci CG. The OSI QB300 is marketed specifically for use with foamed plastics. If you have any additional questions or concerns please do not hesitate to contact me at 888-746-1114.

Sincerely,

Tyler Kuhn

Tyler Kuhn
Technical Sales
Hunter Panels

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

079200-013 REV1
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

079200
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

1/17/17
DATE

To be completed by Reviewer

07 9200-013 REV002
CANNON DESIGN SUBMITTAL NUMBER

1/18/17
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

Kathy Williams
REVIEWED BY

1/19/17
DATE

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0454

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 01/17/2017

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Sealants for Masonry Product Data REV1

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		079200-013	2		01/17/2017	Sealants for Masonry Product Data REV1	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

TRANSMITTAL LETTER

Leonard Masonry, Inc.

5925 Fee Fee Road
St. Louis, MO 63042

Transmittal # **945-13**

Date: 1/16/2017
Phone: (314) 731-5500
Fax: (314) 731-3366

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

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

SUBJECT: Submittal 945-08, Rev #1 Sealants

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
- ☐ Architectural Drawings
- ☐ Engineering Drawings
- ☐ Samples
- ☐ Letters
- ☐ Change Order Requests
- ☑ Submittals: Submittal 945-08, Rev #1 Sealants
- ☐ Shop Drawings
- ☐ Specifications
- ☐ O & M Manuals
- ☐ Prints
- ☐ Plans
- ☐ Addenda
- ☐

Submittal: Sealants - Rev#1

Code/Spec	Copies	For	Product #	Summary Item
	1	Approval		Dow Corning 790
	1	Approval		Carlisle BarriBond
	1	Approval		OSI QB300
	1	Approval		Sealant compatibility letter

Remarks:

COPIES TO:

By: Ken Westhoff
Project Manager

Received by: _____ Date: _____