

1. PRODUCT NAME

ProSpec® B-150 Epoxy Adhesive

2. MANUFACTURER

H.B. Fuller Construction Products Inc.
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.

1-800-552-6225 Office
1-800-952-2368 Fax
prospec.com

3. PRODUCT DESCRIPTION

ProSpec® B-150 Epoxy Adhesive is a 100% solid, acid and alkali resistant tile setting epoxy. B-150 Epoxy Adhesive is a 2-part epoxy consisting of Part A Resin and Part B Hardener, both appearing as firm pastes.

Features and Benefits

- 100% solid, zero shrinkage
- Acid and alkali resistant
- Interior/exterior
- Set most types of ceramic tile or stone
- High bond strength
- Exceeds ANSI A118.3

Uses:

For Installation of:

- Ceramic tile
- Quarry tile
- Pavers
- Mosaic tile
- Granite countertops
- Natural stone
- Heavy duty and non-rigid flooring
- Food preparation areas, breweries, dairies, etc.

For Installation over:

- Clean hardened steel
- Plumb and true masonry
- Properly cured (minimum 28 days) and finished concrete
- Tile backerboard
- Gypsum plaster, gypsum block or gypsum board (dry areas - walls only)
- Exterior grade plywood (interior floors only)
- Tile over properly prepared tile
- Properly prepared vinyl

Note: For other substrates, contact the ProSpec® Technical Services.

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS Sheets are available on our website prospec.com or contact Medical Emergency Phone Number (24 Hours): 1-888-853-1758, Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300 or contact ProSpec® Technical Services at 1-800-832-9023 (7:00AM to 5:00PM M-F, Central US Time).

CAUTIONS

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered ProSpec® brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

B-150 Epoxy Adhesive	Typical Values	ANSI A118.3
Compressive Strength	> 6,500 psi (44.8 MPa)	> 3,500 psi (24.1 MPa)
Shear Bond Strength	2,500 psi (17.2 MPa)	> 1,000 psi (6.9 MPa)

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Test results obtained under controlled laboratory conditions. Reasonable variations can occur due to atmospheric and job site conditions.

VOC

< 10 g/l

LEED® Eligibility¹

- Regional Materials (MR-c5)
- Low-Emitting Materials (IEQ-c4.1, IEQ-c4.3)

Packaging

1 gal (3.8 L) Product #65464501

Shelf Life

12 months from the date of manufacture when stored in the original, unopened container under cool, dry conditions and out of direct sunlight.

5. INSTALLATION Preparation

- Surface must be clean, dry, hard and free from dirt, loose particles, wax, sealers, curing compounds, grease, paint, efflorescence and any foreign materials that will inhibit adhesion.
- Walls and floors must be structurally sound, free of movement and dimensionally stable.
- Surfaces to receive tile shall be plumb and true with square corners. Maximum variation from the required plane shall be: Subfloor Surfaces – 1/4" (6 mm) in 10' (3 m) for tile less than 15" (381 mm) on any one side and the required plane shall be 1/8" (3 mm) in 10' (3 m) for tile 15" (381 mm) or greater on any one side.
- Concrete floors must be fully cured (28 days) and have a fine broom finish. Sprinkle water on the substrate in various areas looking for penetration. If water droplet or beading of water is noticed then surface contaminants are present that will cause loss of adhesion and must be removed. Smooth troweled surfaces should be scarified to assure bond. Inspect surfaces that will receive the tile and the tools used to install it.

Notify the architect or other designated authority in writing of any defects or conditions that prevent a satisfactory tile installation. (See ANSI A108.5)

In case of truing or leveling the work of others, use ProSpec® Floor Patch Pro, a ProSpec® Level Set® Self-Leveling Underlayment or ProSpec® Vinyl Concrete Patch.

Interior wood subfloors: (Light traffic, residential floors only)

Exterior Grade Plywood Subfloors - See the most current edition of [TCNA Methods Handbook F142](#).

- Double wood floor required.
- Maximum joist spacing: 16" (406 mm) on center.
- Subfloor: 19/32" (15 mm) exterior grade plywood or 1" (25 mm) nominal boards.
- Underlayment: 19/32" (15 mm) exterior grade plywood with 1/8" (3 mm) gaps between sheets. These gaps will be filled with the B-150 Epoxy Adhesive when it is applied to set the tile. Plywood must be a Group I CC plugged or better.
- Maximum variation in plywood surface shall not exceed 1/4" (6 mm) in 10' (3 m) from required plane.
- Use 6 D ring shank nails in plywood at 6" (152 mm) OC along the sheet edge and at 8" (203 mm) OC throughout the sheet.
- Overlap all joints of the subfloor.
- Damp mop floor to remove any dust or sawdust. Allow to dry before applying B-150 Epoxy Adhesive.

Note: For joist spacing greater than 16" (406 mm) OC: See [TCNA Methods Handbook F149 / F155](#) or contact ProSpec® Technical Services.

Installations must conform to the current specification ANSI A108.5 and the [TCNA Handbook for Ceramic Tile Installations](#).

Expansion joints are necessary for all installations. Expansion joints shall be located (refer to the [TCNA Handbook for Ceramic Tile Installation Detail EJ171](#)):

- Where tile work abuts restraining surfaces, such as perimeter walls, curbs, columns, pipes and the like.
- Directly over joints in structural floors and over construction or cold joints.
- Directly over expansion or control joints.
- Where specified in the architectural drawing.
- All materials should be stored at 40°F (4°C) to 80°F (27°C) 24 hours prior to installation.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Job Mockups

The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Mixing

B-150 Epoxy Adhesive is packaged in accurately weighted proportions which allows for proper curing. Mix only full complete units.

1. Add Part B into Part A container.
2. Mix thoroughly for five minutes being careful to scrape and mix the epoxy from the side and bottom of the can.
3. Mix either by hand or with a slow speed mechanical mixer (approximately 150 rpm) to assure excessive heat is not generated or air bubble entrapment.
4. Once mixed it is best to get the epoxy out of the mixing container as soon as possible and place on the substrate where the tile is being installed. This will reduce the heat being generated, thus extending the cure or working time. Placing the buckets in a controlled condition (72°F (22°C)) for a minimum of 24 hours prior to use will help with application performance.

The recommended working temperature of B-150 Epoxy Adhesive is between 70°F (21°C) to 80°F (27°C). At higher temperatures the bucket life working time and clean up time are reduced, at lower temperatures the times are extended. Application of B-150 Epoxy Adhesive should not begin until the temperature of the substrate is above 60°F (16°C). A temperature of 60°F (16°C) or higher must be maintained during the curing period.

Note: Surface temperature can vary from room temperature and should be determined with a surface thermometer.

Application

All installations must conform to the current specifications in ANSI A108.6.

1. Select the proper trowel size: The proper trowel size is one that will insure a minimum of 3/32" (2 mm) layer of epoxy between the tile and substrate after the tile has been set. The proper trowel should also result in a minimum 80% coverage interior or dry areas, 95% when used exterior, in wet areas or when setting stone.
2. With pressure, apply a skim coat to the substrate with the flat edge of the trowel.
3. Follow up with a heavier coat so the finished setting bed will be 3/32" (2 mm) after the proper setting.
4. Comb with the recommended notched trowel. Comb only that part of the bed that can have tile put on it before skinning occurs.
5. For deep lugged tile or exterior installations, back buttering along with the proper size notched trowel is required to achieve 95% coverage.
6. Press tile into place and slide perpendicular to the combed ridges to insure proper coverage.
7. Tiles may be adjusted up to 15 minutes after placing.
8. Tile must be firmly set before grouting.

Curing

Areas in which tile is being set shall be closed to traffic and all other work. Light traffic is not permissible until 40 hours after completion, and heavy traffic not until seven days.

Cleaning

Use water to clean all tools immediately after use. Dried material must be mechanically removed.

Limitations

- Do not use partial units. Units A and B must be used together in their entirety to ensure product performance.
- Do not use over particle board, masonite, luan, OSB, gypsum flooring, gypsum patching material.
- Do not apply over dimensionally unstable substrates.

Coverage

Coverage per 1 gal unit:

B-150 Epoxy Adhesive Notch Trowel Size	Covers Approximately
1/8" x 1/8" V notch trowel (3 mm x 3 mm)	40 - 50 ft ² (3.7 - 4.6 m ²)
1/4" x 1/4" x 1/4" Square notch trowel (6 mm x 6 mm x 6 mm)	20 - 25 ft ² (1.8 - 2.3 m ²)
1/4" x 3/8" x 1/4" Square notch trowel (6 mm x 6 mm x 10 mm)	18 ft ² (1.7 m ²)

6. AVAILABILITY

To locate ProSpec® products in your area, please contact:
Phone: 800-832-9002
Website: prospec.com

7. WARRANTY

For warranty details, see your sales associate or prospec.com

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the Technical Support Hotline.
Toll Free: 800-832-9023
Fax: 630-952-1235

Technical and safety literature

To acquire technical and safety literature, please visit our website at prospec.com

10. FILING SYSTEM

Division 9

¹ ProSpec® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

©Copyright 2014 H.B. Fuller Construction Products Inc.

ProSpec® and Level Set® are trademarks of H.B. Fuller Construction Products Inc.

LEED® is a registered trademark of U.S. Green Building Council.

Data Sheets are subject to change without notice. For the latest revision, check our website at prospec.com



H.B. Fuller Construction Products Inc.
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
prospec.com