

## B-150 EPOXY ADHESIVE

### 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

- 100% solid, no 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:

- Fully cured dry concrete slabs (minimum 28 days)
- Clean hardened steel
- Plumb and true masonry
- Properly cured and finished concrete
- For other substrates, contact the ProSpec Technical Department
- Tile backerboard
- Gypsum plaster, gypsum block or gypsum board (dry areas - walls only)
- Exterior grade plywood (interior floors only)
- Tile over tile
- Properly prepared vinyl or vinyl asbestos flooring

### Technical Data

Typical Values	ANSI A118.3
Compressive Strength	
>6,500 psi (44.8 MPa)	>3500 psi (24.1 MPa)
Shear Bond Strength	
2500 psi (17.2 MPa)	>1000 psi (6.9 MPa)



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## Mixing

ProSpec® 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 can.
3. Mix either by hand or with a slow speed mechanical mixer (approximately 150 r.p.m.) 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. This will reduce the heat being generated and the more heat being generated the faster it will cure.

The recommended working temperature of ProSpec B-150 is between 70° F (21° C) to 80° F (27° C). At higher temperatures the working time is reduced, at lower temperatures this is reversed. Application of ProSpec B-150 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.

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

## Preparation

Surfaces must be dry and clean of dust and foreign materials such as oil, grease and dirt. Thoroughly brush or vacuum surface to insure that loose dust and dirt are removed. Concrete floors must be fully cured (28 days) and free from hydrostatic pressure.

When using over plywood, a 19/32" exterior grade plywood substrate should be installed with 1/4" (6 mm) gaps between sheets, over 19/32" plywood or 1" (25 mm) nominal board with joist spacing 16" (406 mm) o.c. maximum. The gap between the plywood underlayment will be filled with ProSpec B-150 as it is applied to set tile.

ProSpec B-150 will not perform on surfaces below 60° F (16° C). The ideal surface temperature is 60° F (16° C) to 75° F (24° C). The colder ProSpec B-150 is, the thicker it gets and the longer it takes to cure.

Surfaces to receive tile shall be plumb and true. Maximum variations from the required plane shall be: horizontal - 1/4" (6 mm) in 10' (3 m).

### **Expansion joints shall be located (refer to the TCA Handbook for Ceramic Tile Installation)**

- Where tile work abuts restraining surfaces, such as perimeter walls, curbs, columns, pipes and the like.
- Directly over joints in structural floor and over construction or cold joints.
- Directly over expansion or control joints.
- Where specified in the architectural drawing.

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### 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  $\frac{3}{32}$ " (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, 100% 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  $\frac{3}{32}$ " (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 may be required to insure 100% coverage. Beat tile into place within 10 minutes of combing. The more the tile is beaten the greater the bond. The coverage requirements are as follows: 80% of the back must contact Epoxy; exterior - 100%. This is best achieved by back buttering the tile.

Adjusting time varies depending on temperature. Therefore, adjust the tile early. Once the initial set occurs, the tile cannot be moved without permanently destroying the bond.

### Coverage

#### Coverage Per 1 Gallon Unit:

$\frac{1}{8}$ " x  $\frac{1}{8}$ " V notch trowel - 40 to 50 ft<sup>2</sup> (4 to 5 m<sup>2</sup>)

$\frac{1}{4}$ " x  $\frac{1}{4}$ " x  $\frac{1}{4}$ " Square notch trowel - 20 to 25 ft<sup>2</sup> (1.8 to 2.3 m<sup>2</sup>)

$\frac{1}{4}$ " x  $\frac{3}{8}$ " x  $\frac{1}{4}$ " Square notch trowel - 18 ft<sup>2</sup> (2 m<sup>2</sup>)

### 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.

### Packaging

1 Gallon (3.8 L)

### Shelf Life

One year from the date of manufacture if store in original, unopened container.

### Caution

KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

CONTAINS EPOXY RESIN - ALIPHATIC AMINES - AVOID VAPORS AND DIRECT CONTACT WITH SKIN. This

product contains ingredients which can be irritating to the skin, eyes or lungs. Use in well-ventilated areas or provide forced ventilation. For continuous work, use rubber gloves or other protective clothing as required.

In case of contact wash skin with soap and plenty of water. If it gets in eyes flush eyes continuously with water for 15 minutes. If skin rash occurs, consult a physician.



## B-150 EPOXY ADHESIVE

### First Aid

ProSpec® B-150 Epoxy Adhesive (Part A) is a colored paste and (Part B) is a liquid polyamide adduct. When B-150 (Part A) is mixed with B-150 (Part B) it results in a mixture that is 100% solids liquid. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions.

#### Eyes:

Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Get medical attention if irritation occurs.

#### Skin:

Wash skin with water and soap or an approved cream. Seek medical treatment if irritation or inflammation develops.

#### Inhalation:

Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of B-150 (Part A) require immediate medical attention.

#### Ingestion:

Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

For additional information, call Bonsal American at 704-525-1621 or CHEMTREC at 800-424-9300 or 703-527-3887 outside of the USA.

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

LIMITED 1 YEAR WARRANTY FROM DATE OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Bonsal American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product, or, at Bonsal American's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. BONSAL AMERICAN SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES INCLUDING LOSS OF PROFITS OF ANY KIND. Product demonstrations are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. This Warranty constitutes the sole warranty given by Bonsal American in connection with this product. No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal American. Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.