



TILE BOND™ ROOF TILE ADHESIVE

1. PRODUCT NAME

TILE BOND™ Roof Tile Adhesive

2. MANUFACTURER

The Dow Chemical Company
Dow Building Solutions
200 Larkin
Midland, MI 48674
1-866-583-BLUE (2583)
Fax 1-989-832-1465

Dow Chemical Canada Inc.
Dow Building Solutions
450 – 1st St. SW, Suite 2100
Calgary, AB T2P 5H1
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)

www.dowbuildingsolutions.com

3. PRODUCT DESCRIPTION

Packaged in a self-contained disposable can or canister, TILE BOND™ is a portable one-component polyurethane foam roof tile adhesive for attaching concrete and clay roof tiles. It is quicker and easier to install compared to traditional attachment methods such as screws, mortar, wire ties and clips. Minimal-expanding TILE BOND™ Adhesive also provides greater attachment strength while minimizing nail penetrations and reducing roof weight loads. With its easy-to-use dispensing equipment, TILE BOND™ Adhesive can be quickly and efficiently dispensed in a highly consistent manner, eliminating the need for expensive equipment and ratio monitoring.

BASIC USE

TILE BOND™ Roof Tile Adhesive is designed for use with low/flat, medium, high and two-piece barrel profiles of roof tile when applied to a pre-approved underlayment. It is an ideal choice for all new, re-roof and specialty applications, including hip and ridge, rake and valley, and field and eave installations.

SIZES

- 28 oz (794 g) can with reusable straw
- 23 lb (10 kg) canister with gun/hose assembly
- 23 lb (10 kg) canister only

4. TECHNICAL DATA

APPLICABLE STANDARDS

TILE BOND™ Roof Tile Adhesive meets the following ASTM standards:

- E84 – Class 1 foam adhesives, see Underwriters Laboratories, Inc. (UL) Classified, file R18231
- E108 – Standard Test Methods for Fire Tests of Roof Coverings
- D1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics
- D1623 – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
- D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- E96 – Standard Test Methods for Water Vapor Transmission of Materials
- D2126 – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- D2842 – Standard Test Method for Water Absorption of Rigid Cellular Plastics

CODE COMPLIANCE

TILE BOND™ Roof Tile Adhesive complies with the following codes:

- Florida Building Code FL 717-R1
- SBCCI-ES Evaluation Report 2201
- South Florida Building Code, Broward County, 1999 Edition
- Miami-Dade NOA 08-0512.18, Expiration Date 8/23/11

Contact your Dow sales representative or local authorities for state/provincial and local building code requirements and related acceptances.

PHYSICAL PROPERTIES

TILE BOND™ Roof Tile Adhesive exhibits physical properties indicated in Table 1 when tested as represented.

ENVIRONMENTAL DATA

TILE BOND™ Roof Tile Adhesive contains isocyanate and a hydrofluorocarbon blowing agent. TILE BOND™ Adhesive has zero Volatile Organic Compounds (VOCs) emissions, per the California Air Resources Board and California South Coast Air Management District definitions found in 17 CCR s94508, and SCAQMD Reg. I, Rule 102.

TABLE 1: TYPICAL PHYSICAL PROPERTIES⁽¹⁾ OF TILE BOND™ ROOF TILE ADHESIVE

PROPERTY AND TEST METHOD	VALUE
Compressive Strength ⁽²⁾ , ASTM D1621, psi (kPa), min.	10 (68.9)
Water Absorption, ASTM D2842, % by volume, max.	3.96
Water Vapor Permeance ⁽³⁾ , ASTM E96, perm (ng/Pa•s•m ²), max.	2.67 (152.7)
Tensile Strength, ASTM D1623, psi (kPa) @ 180°F, 65% RH for 90 days, concrete to concrete	17 (117.2)
Dimensional Stability, ASTM D2126, % volume change @ -40°C, 2 weeks	1.01
@ 70°C, 97% humidity, 2 weeks	10.44
Density, ASTM D1622, lb/ft ³ (kg/m ³)	1.91 (30.6)
Shelf Life, months	12

(1) Not to be considered sales specifications.

(2) Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first.

(3) Based on 1" (25 mm) thickness.

FIRE PROTECTION

TILE BOND™ Roof Tile Adhesive should be stored away from heat sources. It is combustible and may present a fire hazard if exposed to flame or temperatures above 240°F (116°C).

For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector.

5. INSTALLATION

TILE BOND™ Roof Tile Adhesive is a minimal-expanding foam that is quick and easy to dispense. See TILE BOND™ Adhesive operating instructions or contact a local Dow representative for more specific instructions.

SAFETY AND CONDITIONS OF USE

- Read the label and Material Safety Data Sheet carefully before use.
- TILE BOND™ Roof Tile Adhesive contains isocyanate and a hydrofluorocarbon blowing agent. Do not breathe vapor or mist. Use in well-ventilated areas or wear proper respiratory protection. Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact.
- TILE BOND™ Roof Tile Adhesive is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Wear gloves, and goggles or safety glasses. Cured foam must be mechanically removed or allowed to wear off in time.
- The contents are under pressure.

6. AVAILABILITY

TILE BOND™ Roof Tile Adhesive is distributed through an extensive network of Dow Building Solutions distributors. For more information, call:

1-800-232-2436 (*English*)

1-800-565-1255 (*French*)

7. WARRANTY

Not applicable.

8. MAINTENANCE

When installed in accordance with Dow installation recommendations, TILE BOND™ Roof Tile Adhesive is a permanent adhesive requiring no maintenance.

9. TECHNICAL SERVICES

Dow can provide technical information to help address questions when using TILE BOND™ Roof Tile Adhesive. Technical personnel are available to assist with any roof tile project.

For technical assistance, call:

1-866-583-BLUE (2583) (*English*)

1-800-363-6210 (*French*)

10. FILING SYSTEMS

- www.dowbuildingsolutions.com
- www.sweets.com

www.dowbuildingsolutions.com**Technical Information**

1-866-583-BLUE (2583) (*English*)

1-800-363-6210 (*French*)

Sales Information

1-800-232-2436 (*English*)

1-800-565-1255 (*French*)

IN THE U.S.

THE DOW CHEMICAL COMPANY

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IN CANADA

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COMBUSTIBLE: TILE BOND™ Roof Tile Adhesive should be stored away from heat sources. It is combustible and may present a fire hazard if exposed to flame or temperatures above 240°F (116°C). For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

TILE BOND™ Roof Tile Adhesive contains isocyanate and a hydrofluorocarbon blowing agent. Read the label and Material Safety Data Sheet carefully before use. Wear gloves, and goggles or safety glasses. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure.

