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TITE-SET®

Commercial Roofing Insulation Adhesive

TECH DATA SHEET

PRODUCT DESCRIPTION

TITE-SET® Adhesive is a two component self-leveling elastomeric polyurethane froth adhesive. TITE-SET® is specifically designed to provide outstanding adhesive properties as well as controlled gap fill without lifting the insulation boards. The adhesive is dispensed utilizing Polyfoam's proprietary FOAMPRO® dispensing equipment or disposable plastic applicator. The "A" and "B" components are available in 17 and 60 gallon refillable cylinders or in pre-pressurized disposable 5.84-gallon cylinders.

BASIC USE

TITE-SET® is specifically designed to adhere a variety of insulation board stock to various substrates in both new and re-roof applications. It can also be used to adhere insulation board to insulation board where multiple layers are required. The adhesive is applied in a bead form directly to an approved substrate. The board stock is placed into the adhesive and walked into place. A chemical cure takes place in approximately 4 to 8 minutes after application, depending on temperature and weather conditions.

COMPATIBLE ROOF DECKS AND SUBSTRATES

- Structural Concrete
- Asphalt Primed Concrete (re-roof & recover)
- Pre-cast Concrete
- Various BUR (smooth or gravel)
- Base Sheets
- Steel-22 gauge or lower with approved cross section
- Lightweight Structural Concrete
- Cementitious Wood Fiber Planks
- Insulating Concrete
- Vapor Retarders (hot, cold, torch-applied)
- Gypsum (pending)

COMPATIBLE ROOF INSULATIONS

- Polyisocyanurate
- Dens-Deck®
- HD Wood Fiber
- EPS (exp, ext)

NON-COMPATIBLE SUBSTRATES

(These and other substrates not listed above must be reviewed and approved by Polyfoam Products.)

- Cold Tar Pitch BUR
- Gravel Surfaced BUR

APPLICATION FEATURES

- No structural deck damage caused by mechanical fasteners
- No fear of drilling through electrical Conduit or damaged concrete surface
- No fastener back out
- No deck damage when removing Fasteners for reroofing
- No asphalt contamination or offensive fumes
- No potential burns
- Continuous walk-in of insulating board is not required
- Very rapid application
- No extensive set-up or breakdown time

POST-APPLICATION FEATURES

- Insulation is securely adhered to substrate
- Maximum wind uplift resistance

COMPOSITION AND MATERIALS

- TITE-SET® is a catalyzed two-part polyurethane froth adhesive
- The blowing agent is 134a (non HCFC)

LIMITATIONS

- TITE-SET® is not recommended for use with insulating board stock larger than 4' x 4'
- TITE-SET® is not recommended for application when ambient or substrate temperatures are below 40° F
- TITE-SET® is not recommended for use during inclement weather
- TITE-SET® is not recommended for use on wet surfaces
- TITE-SET® is not recommended for use on any roof deck that shows signs of deterioration or loss of structural integrity
- TITE-SET® is not recommended for use on excessively dirty or grease laden surfaces
- TITE-SET® is not recommended for use after the expiration date

TECHNICAL DATA

TITE-SET® is packaged in 17 and 60 gallon refillable cylinders or in pre-pressurized disposable 5.84-gallon cylinders. The “A” component is diisocyanate and the “B” component is a polyurethane resin. The “A” and “B” containers should be stored between 45° F and 95° F. The shelf life, at these temperatures, is 18 months from the date of manufacturer. The minimum product temperature prior to application should be between 70° F and 90° F. The minimum ambient and surface temperature should be 40° F.

LISTINGS

TITE-SET® is approved by the following agencies:

Factory Mutual (FM)
Underwriters Laboratories (UL)
Florida Building Code (FBC)
Metro-Dade

and is being evaluated by many system manufacturers.

SURFACE PREPARATION

Lightweight concrete, structural concrete, and plywood: These surfaces must be free of any debris, dirt, oil, grease, and water before applying TITE-SET®.

Built-ups (BUR) and Modifieds: Surfaces must be free of any debris, dirt, oil, grease, and water. Contact Polyfoam Products for details.

Steel: The upper flange of the steel deck (bonding surface) surfaces must be free of any debris, dirt, oil, grease, and water. On new steel, the shop oil coating must be removed. The bonding surface must be free of any cleaner before applying TITE-SET®.

PRODUCT INSTALLATION

TITE-SET® must be applied using the RTF1000EZ gun dispenser. Polyfoam Products must qualify applicators and installers in the use of the RTF1000EZ gun dispenser. Contact Polyfoam Products for details.

The TITE-SET® adhesive is applied in rows a maximum of 12" on center. The insulation board is then laid into place and walked in to assure complete adhesion. Continuous walking in of the insulation board is not necessary. Boards are to be placed into the adhesive while it is still wet and tacky. Product becomes tack free within 5 to 12 minutes depending on ambient temperature. Typical coverage rates are between 3 and 4 pounds per 100 square feet. The application rate must be increased for rougher surfaces and will vary depending on the roughness.

NOTE: Boards that will not lay flat due to cupping, warping or crowning, or surface irregularities of the substrate, should have weights placed on the boards until the TITE-SET® has achieved adequate adhesion to hold the boards in place.

AVAILABILITY AND COST

TITE-SET® is available for sale from roofing material distributors. Contact Polyfoam Products Inc. at (888) 774-1099 or visit our website at www.polyfoam.cc for the nearest distributor of TITE-SET®.

WARRANTY

Polyfoam Products, Inc., issues a 10 year limited material warranty on all TITE-SET® purchases. A full adhesion warranty is available by contacting Polyfoam Products prior to starting the project and submitting a **PROJECT MATERIAL PROFILE** and a completed **REQUEST FOR WARRANTY** form.

STORAGE AND HANDLING

Refillable cylinders should be closed and capped when empty and returned to:

Polyfoam Products Inc.
17115 Boudreaux Rd.,
Tomball, Texas 77375

Disposable cylinders should be disposed of in accordance with local, state and federal regulations. Consult MSDS on file.

FIRST AID

Inhalation: Remove to fresh air. If breathing is difficult contact a physician.

Eye Contact: Flush with running water for at least 15 minutes. Contact a physician if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove and wash contaminated clothing before re-use.

Ingestion: If ingested, induce vomiting and call a physician at once

ENVIRONMENTAL HAZARD

Do not discharge into lakes, streams, ponds or public waters. For guidance, contact your regional office of the EPA.

For additional information regarding application or product specifics, please reference the TITE-SET® Use and Care DVD. To request a copy, contact Polyfoam Products at **888.774.1099** or view the video online at *www.polyfoam.cc*.