



TROPICAL ASPHALT

#728 INSULATION ADHESIVE

DESCRIPTION: #728 Insulation Adhesive is a rubber modified asphalt emulsion adhesive for all types of roof insulation. It is recommended for adhering all board-type roof insulation to each other and to a variety of substrates, including concrete, plywood, steel, and most well-bonded roof coatings, and for laminating solvent-sensitive Expanded Polystyrene (EPS) and Extruded Polystyrene (XEPS) boards.

- Solvent free — ideal for polystyrene insulation.
- Non-flammable during application
- Water based — no fumes or odors
- Ideal for assembling tapered insulation systems.
- Bonds to damp or dry surfaces.
- Excellent adhesive strength.
- Excellent low - temperature flexibility.
- Water resistant when cured.

TECHNICAL DATA:

- ◆ Maintains tack after full cure.
- ◆ Storage & Application Temperature – Above 45 °F
- ◆ Weight per Gallon - Approx. 8 lbs.
- ◆ Volatile Volume (Water) - Approx. 38%. Solvent free
- ◆ Approved Substrates - APA Grade Plywood, Association Grade particle board, concrete, steel, most coatings
- ◆ Color - Dark brown when wet, black when dry.
- ◆ Base - Rubber modified asphalt emulsion.
- ◆ Flammability - Non-Flammable when wet; burns slowly when dry.
- ◆ Maximum VOC -30 g/l.
- ◆ Container Sizes - 5-Gal, 55-Gal drums, 250-Gal Tote

PRECAUTIONS: Adhesive is not affected by rain or freezing after drying, but is not recommended as an exposed coating. Adhesive is water sensitive until fully cured. Do not apply if temperature is below 45°F or is expected to drop below 45 °F within 6 hours. For best results, store adhesive and insulation materials at 65 - 75 °F before installation. Do not heat container or store above 120 °F. **PROTECT FROM FREEZING!**

SURFACE PREPARATION: Deck and Insulation surface area must be thoroughly cleaned to remove all dust, dirt, and other foreign matter that will interfere with a good bond. Remove rust and scale from metal surfaces by wire brushing. If necessary, clean with a mild soap like TSP and rinse thoroughly. Galvanized steel decks may be scrubbed with white vinegar and then rinsed thoroughly. Final surface may be damp, but moisture must not be transferable by touch.

APPLICATION: #728 INSULATION ADHESIVE may be applied in a variety of methods depending on the specific materials to be bonded; use the appropriate method for each application. Exposed surfaces usually dry to touch in 20 minutes to 2 - 3 hours depending on temperature and humidity; full cure occurs in 1 hour to several days depending on the application method, materials to be bonded, and the temperature and humidity.

A. APPLICATION METHOD FOR BONDING INSULATION TO STEEL, CONCRETE & GYPSUM ROOF DECKS:

The preferred method for bonding all insulation materials to these roof decks is to apply #728 Insulation Adhesive at a rate of 2 - 2 ½ gallons per 100 square feet in the form of beads or spots in the following patterns. All substrates should be primed when necessary. Steel, concrete or gypsum: apply as parallel or serpentine stripes, 1/2" diameter or 1 ¼" wide by 3/16" thick, 6" apart (one per flange on steel decks) using a pour can or heavy duty pump and wand. Allow no more than 10-20 minutes of air exposure prior to setting the insulation into the wet adhesive and walking it in. All insulation must be installed with the joints of successive rows staggered by at least 6" from each other.

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B. APPLICATION METHOD FOR BONDING INSULATION TO PLYWOOD DECKS:

The first layer of insulation can be mechanically fastened to the deck with approved fasteners. Following layers may be bonded with #728 Insulation Adhesive as described below. Alternatively, a 25 lb. minimum coated base sheet may be mechanically fastened to the plywood deck using approved fasteners, per manufacturer's recommendations, and the first layer of insulation adhered to the base sheet with #728 Insulation Adhesive using method C or D below. NOTE: If local building code permits direct adhesion to the plywood deck, all insulation may be bonded directly to the plywood using method A, C, or D. All insulation must be installed with the joints of successive rows staggered by at least 6" from each other and from the joints in the plywood deck.

C. "WET" APPLICATION METHOD FOR BONDING WOOD FIBER OR PERLITE BOARDS TO ANY INSULATION:

Because wood fiber and perlite insulation boards are permeable to water vapor, they may be bonded to themselves, to each other, and to any other type of insulation board using the "wet" application method. This is the preferred method of application for these materials, and may be used whether the wood fiber or perlite insulation is the upper or lower board. Apply #728 Insulation Adhesive at a rate of 2 - 2 1/2 gallons per 100 square feet to the previous layer of insulation using trowel, brush, or heavy-duty spray equipment. #728 Insulation Adhesive may be applied as a uniform film and/or in stripes as described in Method A above. Allow no more than 10-20 minutes of air exposure prior to setting the insulation into the wet adhesive and walking it in. All insulation must be installed with the joints of successive rows staggered by at least 6" from each other, and by at least 6" in all directions from the joints of the underlying insulation boards.

D. "CONTACT" APPLICATION METHOD FOR BONDING ONE NON-PERMEABLE INSULATION TO ANOTHER:

Polystyrene, polyurethane / isocyanurate, and other insulation boards are not permeable to water vapor and MUST be bonded using the following "contact" adhesive method. Apply #728 Insulation Adhesive at a rate of 1 - 1 1/4 gallons per 100 square feet to each of the two surfaces to be joined — that is, to both the previous layer of insulation and the following layer — using trowel, brush, roller, or heavy duty spray equipment. Allow the adhesive to dry to the touch — typically 20 minutes to 3 hours, depending on temperature and humidity. Carefully position the insulation board above the previous layer, set in place, and walk it in. NOTE: As with all contact adhesives, bonding occurs instantly! It is critical that each board be carefully positioned before the surfaces are allowed to touch.

All insulation must be installed with the joints of successive rows staggered by at least 6" from each other, and by at least 6" in all directions from the joints of the underlying insulation boards. Note: The contact adhesive method may also be used to bond wood fiber or perlite insulation boards, or to bond any insulation to a steel roof deck, but is not the preferred method for those applications.

CLEAN UP: Clean hands with a waterless hand cleaner. Clean wet adhesive from tools with soap and water. Keep tools in water before using and when not in use. Use mineral spirits solvent or paint thinner for dried adhesive.

CAUTION: Do not take internally. Close container after each use. **KEEP OUT OF REACH OF CHILDREN. DO NOT HEAT CONTAINER OR STORE IN TEMPERATURES ABOVE 120 F°.**

PROTECT FROM FREEZING

LIMITED WARRANTY: Tropical Asphalt warrants only that this product is free of defects, since many factors which affect the results obtained from this product — such as weather, workmanship, equipment utilized and prior condition of the substrate — are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. DISCLAIMER OF WARRANTIES: The Limited Warranty is in lieu of any other warranties express or implied including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.

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