



FlexShield Adhesive

Product Information and Technical Data

Description

FlexShield Adhesive is water based, solvent-free, rubberized asphalt adhesive for most types of roof insulation including tapered systems. Non-flammable during application. Water resistant when cured. Excellent bond strength. Excellent low temperature flexibility.

Usage

FlexShield Adhesive is recommended for laminating solvent-sensitive Expanded Polystyrene (EPS) and Extruded Polystyrene (XEPS) boards and for adhering GlobalShield Cover Board and most board-type roof insulations to each other and to a variety of substrates. These uses include plywood, concrete, steel, and most well-bonded roof coatings. apply material using trowel, brush, roller, or suitable spray equipment.

Coverage

Coverage is from 2 - 2 1/2 gallons per 100 square feet.

Surface Preparation

Do not prime roof deck. Remove rust and scale from metal surfaces by wire brushing. Galvanized steel decks may be scrubbed with white vinegar and then thoroughly rinsed. All surfaces must be clean, dry, stable, and free of projections that would prohibit solid contact. Remove grease, water repellents, or some curing agents which might interfere with a good bond. If necessary, brush with TSP solution (1 - 1 1/2 lbs of TSP in 5 gallons of water) and rinse thoroughly. Maximum recommended insulation board size is 4'x 4'. Insulation stops recommended on sloped roofs. Not suitable for some steep slope applications--consult with GlobalShield Technical Services. Not for use with fiberglass insulation.

Application

To identify the correct method for your particular combination materials, refer to the Application Method Reference Chart which is available at the GlobalShield Technical Services Department or your GlobalShield Representative.

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.

TYPE "A"--WET APPLICATION METHOD

Apply FlexShield Adhesive at a rate of 2 - 2 1/2 gallons per 100 square feet to the substrate or previous layer of insulation using trowel, brush, notched squeegee, or

heavy duty spray equipment. Apply as parallel or serpentine stripes 1/2" diameter or 1 1/2" wide by 3/16" thick--6" apart (on steel decks one per flange). Allow no more than 10 - 20 minutes of air exposure prior to setting the insulation into the wet adhesive and walking it in. May also be applied in spots.

TYPE "B"--CONTACT APPLICATION METHOD

Apply FlexShield 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 cure completely--typically 20 minutes to 3 hours, depending on the temperature and humidity. Test by pressing finger onto dried adhesive: if it is fully cured it will tear the insulation when you lift your finger. 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.

Precautions

PROTECT FROM FREEZING! Substrate and air temperature must be above 40°F and rising. Do not apply if temperature is expected to drop below 40°F within at least 24 hours. For best results, store adhesive and insulation materials at 70°F before installation. Do not heat container or store above 120°F. Adhesive is water sensitive until fully cured. Adhesive is not affected by rain or freezing after drying, but do not use as an exposed coating.

Caution

CAUTION! Do not heat container or store at temperatures greater than 120° F. Close container after each use. **DO NOT TAKE INTERNALLY!** Use protective measures to avoid contact with eyes and skin. If swallowed, **CALL PHYSICIAN IMMEDIATELY!** In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. **GET MEDICAL ATTENTION. KEEP OUT OF REACH OF CHILDREN! DO NOT ALLOW THIS PRODUCT TO FREEZE!**

WARNING: This product contains detectable amounts of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. EMPLOYERS should obtain a copy of the Material Safety Data Sheet (MSDS) from your supplier or directly from GlobalShield at the toll free number of website below.

Limited Warranty

We, the manufacturer, warrant 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 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 recommend 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

Cleanup

Clean wet adhesive from tools with soap and water. Keep tools in water before using and when not in use. Use paint thinner for dried adhesive. Clean hands with a waterless hand cleaner.

Availability and Costs:

Availability: Products are immediately available from GlobalShield, Inc. throughout the United States.

Cost: Cost data is available from your local GlobalShield representative.

Technical Services: GlobalShield Technical Services Department provides problem analysis and assistance in developing recommendations for special applications. Warranty systems require inspection by GlobalShield prior to installation. Progress and final inspections are also required.

Statement of Policy and Responsibility:

GlobalShield takes responsibility for the furnishing of quality materials, specifications and recommendations for their proper installation. GlobalShield does not, either itself or through its representatives, practice architecture or engineering. GlobalShield offers no opinion on and expressly disclaims any responsibility for, the structural soundness of any roof deck on which its products may be applied. Opinions of competent structural engineers should be obtained by the owner as to the structural soundness of the roof deck, or its ability to properly support the contemplated roof installation. GlobalShield accepts no liability for any failure of the roof deck or resultant damages, and no GlobalShield representative is authorized to vary this disclaimer.

Physical Properties

Color (When Dry)	Black	Sizes	
Base	Rubber Modified Asphalt Emulsion	5 gal pails	46 lbs. each
Weight per gallon	8.6 lbs.	55 gal. drums	495 lbs. each
Solids by Volume	70%	275 gal. totes	2,531 lbs. each
VOC	2 g/l	Coverage: 2-2.5 gallons/square per coat	
Application Temperature	40°F and rising		
Maximum Insulation Board Size	4' x 4'		

