



## DATA SHEET NO. 7200-450

### 450

## Adhesive, Vapour Barrier, and Weather Barrier Insulation Coating

#### DESCRIPTION

450 is an asphalt-based, cutback type, insulation adhesive, and vapor barrier coating that can be used over insulations on piping and equipment in low to moderately high temperature environments. When properly applied as an adhesive or vapor barrier coating, it protects against moisture and environmental conditions such as chemical dusts, fumes, fogs, and moisture. The cured coating will form an impermeable, tough and durable finish.

#### USES

450 as an insulation adhesive is designed for bonding rigid insulation board such as polystyrene, fiberglass, bead, cork, and other foam types to masonry, concrete, plaster board, or metal. The product is particularly suited for use in cavity wall masonry construction. As a vapor and weather barrier coating, it can be used over the same insulations indicated above as well as cellular glass and polyurethane insulations.

#### PACKAGING

18.9 L Pails

#### COVERAGE

3 mm (1/8") Film	.32 m <sup>2</sup> /L (5 ft. <sup>2</sup> /gal.)
Spot Application	2.0 m <sup>2</sup> /L (100 ft. <sup>2</sup> /gal.)
1.5 mm (1/16") Film	.65 m <sup>2</sup> /L (32 ft. <sup>2</sup> /gal.)
Bead Application	6.7 m <sup>2</sup> /L (100 ft. <sup>2</sup> /gal.)
Notched Trowel	1.0 m <sup>2</sup> /L (50 ft. <sup>2</sup> /gal.)

#### SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 4° - 32° C, optimum performance and best use is obtained within two years of date of manufacture.

#### TECHNICAL DATA

Color	Black
Solids	75% approx.
Weight	1 kg/L (10 lb./gal)
Moisture Permeance	less than .03 perms @ 1.5 mm wet film (ASTM E-96)
Water Content	1% maximum
Service Temperature Range (Temperature to which dry film is subjected.)	-51° to 163° C (-60° to 325° F)
Application Temperature Range	10° to 38° C (50° to 100° F)

#### APPLICATION

**Surface Preparation** ... Surface shall be firm and free from loose particles, cracks, grease, oil, and other foreign matter. Surface must be free from frost, snow and ice.

**Application Method** ... If temperatures are 10° C or below, warm material by leaving in a heated building overnight. DO NOT USE A FLAME TO HEAT.

**Full Coat and Notched Trowel Applications** ... Apply adhesive at specified coverage to one or both surfaces to be bonded. Press insulation into place using a firm twisting motion to ensure even contact.

**Spot Application** ... Apply 20 mm x 20 mm (¾" x ¾") gobs on 25 cm (10") centres. Press insulation into place.

**Bead Application** ... Using a bulk caulking gun or pneumatic dispenser, extrude a continuous 8 mm (5/16") bead on 20 cm (8") centres. Keep adhesive within 8 cm (3") of the edge of the board. Press insulation into place.

**Important Application Tip** ... Always allow

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approximately 10 minutes between applying the adhesive and pressing the board into place. This will ensure optimum adhesion and reduce chances of solvent buildup behind the insulation.

**Drying Time ...** 24 hours average.

#### **PRECAUTIONS**

Contains flammable solvents. Keep away from heat and open flame. Use in well-ventilated area. Do not use where solvent odors may contaminate foods or other susceptible products. Do not expose to high temperatures during curing period.

**MASTERFORMAT NUMBER AND TITLE**  
07 21 00 - Dampproofing and Waterproofing

#### **LEED INFORMATION**

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

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