TECHNICAL DATA SHEET

230-21

Rigid Insulation Adhesive

Physical Properties

-Colour	Cream	-Drying Time	(On porous base substrate at 20°C (68°F)
-Solids by Weight	73% (approx.)	Initial Set	Up to 30 minutes
-Weight	1.2 kg/l (12 lbs./gal.) (approx.)	Set Through	24 hours
-Coverage	Adhesive only; 4 m^2/l (150 ft^2/gal.) Adhesive & Vapour Barrier; 0.3 m^2/l @ 3 mm thickness (16 ft^2/gal. @ 1/8" thickness).	-Service Temperature (glue line)	Minus 45°C to 70°C (Minus 49°F to 158°F)
		-Flammability	
		Wet	Extremely flammable
		Dry	Burns
-Application Temperature	Minus 12°C to 40°C (10°F to 104°F)	-Water Vapour Permeance (ASTM E96)	@ 1.5 mm (1/16") dry film 1.7 ng/Pa.m^2.s (0.03 perms)

Description

A trowel consistency, synthetic rubber-based insulation adhesive. It is a solvent-type, smooth-spreading adhesive that can be applied at temperatures down to minus 12°C (10°F). It has high initial strength and sets rapidly to give a strong, resilient bond. Complies with CGSB 71-GP-24M, Type II.

Features

For bonding polystyrene, polyurethane, cork, glass foam, fibrous glass to itself, concrete, masonry, wood or metal surfaces. It may also be used for bonding plywood or gypsum board to suitable insulation surfaces. Used in full coat applications to provide a vapour barrier.

Limitations

The components used in **230-21** do not attack polystyrene insulation at ambient temperatures below 40°C (104°F). Polystyrene insulation may be affected by solvent system in uncured **230-21** if temperatures are in excess of 40°C (104°F) at time of application. Use mechanical fasteners when installing ceiling insulation. Do not use as an insulation clip adhesive.

Mechanical fasteners must be used in conjunction with the adhesive for installation of plywood or gypsum board.

Preparation

Surfaces must be even, clean, dry and free of contaminants that would impair adhesion. Parge irregular concrete or masonry surfaces to present a smooth, even surface.

Plaster or other wall finishes must not be applied to the insulation without providing additional support such as mechanical fasteners.

Application

Notched Trowel: Apply adhesive using a saw tooth notched trowel having 3.0 mm (1/8") notches. (the preferred method for adhering polystyrene insulation or gypsum board to insulation surfaces, see limitations).

Bead Method (Caulking Gun): Apply a 6.4 mm (1/4") diameter bead on 150 mm (6") centres in a serpentine pattern.

Gob Method: Apply walnut-sized gobs on 150 mm (6") centres. Gobs when compressed should be approximately 40 to 50 mm (½" to 2") diameter. Apply boards using hand pressure at several points to achieve maximum contact. Joints of insulation boards should be buttered when using gob method to prevent air circulation behind insulation boards.

Adhesive and Vapour Barrier: Apply by flat trowel a continuous unbroken film of **230-21** at 3 mm (1/8") thickness to one side, edges and ends of the first layer of insulation board or to substrate. Press into place firmly with a sliding motion to ensure complete contact. Strike off extruded adhesive. Subsequent layers may be applied using the notched trowel, bead or gob method.

Cure rate is dependent upon application method, temperature and porosity of surfaces being bonded.

Clean Up

Use mineral spirits.

Caution

Contains extremely flammable solvents. Take suitable fire precautions. Do not allow smoking or welding in working area. Keep away from open flame or spark. Use only under well ventilated conditions. Keep containers covered when not in use. Harmful if swallowed. < >