

ADPHALT FOAM POLYURETHANE ADHESIVE

DESCRIPTION & USE

ADPHALT is a flexible, quick setting polyurethane insulation adhesive for use with expanded polystyrene, polyisocyanurate, fibreboard, perlite, gypsum and light weight fibre cement boards in roofing applications. It's unique application method allows for a secure and economical application.

FEATURES & BENEFITS

Quick and Easy Application - When ADPHALT is used with the ROCKET APPLICATOR, 6 measurable and consistent beads of adhesive can be applied at a time.

Wide Temperature Range - Allows for year round installation.

Low VOC - Eco Friendly, no odour.

No CFC's or HCFC's - Low GWP (Global Warming Potential).

Excellent adhesion on most material* - Peace of mind.

*Contact your technical representative for the approval of application temperature and the amount of adhesive required to bond different types of material.

APPROVALS & COMPLIANCES

- Meet the CAN ULC-S-107 standard
- UL Code R26656
- This product is eligible for use in certain CSA 123 assemblies.



TESTED
ACCORDING TO
CSA A123.21
STANDARD

PACKAGING

Packaging	
Size of the Can:	800 g (750 ml)
Number of Cans per Box:	12
Weight of the Can:	0.86 kg (1.90 lbs)
Weight of the Box:	10.73 kg (23.70 lbs)
Size of the Box:	273.1 mm x 228.6 mm x 355.6 mm (10.75" x 9" x 14")



TECHNICAL DATA

Properties	
Base	Polyurethane
Colour	Champagne
Consistency	Stable foam thixotropic
Curing System	Moisture cure
Skin Time (20°C (68°F) /65% R.H.)	± 8 minutes
Drying Time (20°C (68°F) /65% R.H.)	Dust free after 20-25 minutes
Curing Time [20°C (68°F) / 65% H.R.]	1 hour for a 30 mm diameter
Yield	1000 ml yields 55-60 l (cured foam)
Skinkage	None
Post-Expansion	None
Cellular Structure	70-80% closed cells
Relative Density	22 kg/m³ (when fully cured)
Maximum Distorsion	25%
Temperature Resistance	-40°C (-40°F) to 90°C (194°F) when cured
Fire class (DIN 4102 part 2)	B3
Insulation Factor	32 mW/m.K
Shear Strength (DIN 53427)	16 N/cm²
Pressure Strength (DIN 53421)	3 N/cm²
Bowing Strength (DIN 53423)	8 N/cm²
Water Absorption (DIN 53429)	1% Vol
V.O.C.	180 g/L
Flame Spread (CAN/ULC S102)	30
Smoke Development (CAN/ULC S102)	50
Flame Spread (ASTM E84)	15
Smoke Development (ASTM E84)	35
Application Temperature	-5°C (23°F) to 35°C (95°F)



COMMERCIAL BUILDING PRODUCTS

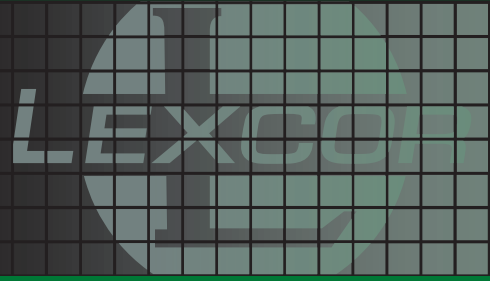
Ontario & Western Canada 1.800.268.2889 / Quebec & Atlantic 1.800.363.2307

Distr. By/Par Lexsuco 2010 Corporation, 3275 Orlando Drive, Mississauga, ON, L4V 1C5

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ADPHALT

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COVERAGE RATE

Coverage Rates	
Coverage per Can	150 lin. ft. @ 161 mm (5/8" wide bead)
Recommended Rates of Application 91.44 cm x 243.84 cm (3' x 8') board:	5 beads
Recommended Rates of Application 121.92 cm x 121.92 cm (4' x 4') board:	6 beads*
Approximate Coverages Coverage per Box of 12 cans (5 beads):	900 - 1100 ft ²
Approximate Coverages Coverage per Box of 12 cans (6 beads):	1000 - 1200 ft ²

* On the 3' Width of the Board.

Calculation - Number of Cans Required	
Number of Cans Required: Roof Area Square Footage ÷ 100 Ex : 20,000 ft ² ÷ 100 = 200 cans	
Round Up to the Next Unit for Number of Boxes Required: Number of Cans ÷ 12 Ex : 200 Cans ÷ 12 = 16.66 (17 Boxes)	

SHELF LIFE

- 12 months

APPLICATION

Preparation

Surface must be clean dry and free of contaminants and loose materials.

Application

1. Mix cans thoroughly by shaking them for a minimum of 30 seconds.
2. Insert cans into the ROCKET APPLICATOR and attach the nozzles.
3. Position the applicator and turn the release handle to allow the foam to flow.
4. Walk backwards with the applicator at a speed to achieve the desired bead size.
5. Apply 6 beads for 1219.2 mm x 1219.2 mm (4' x 4') boards and 5 beads for 914.4 mm x 2438.4 mm (3' x 8') boards.
6. Allow 2-4 minutes of open time before installing boards.
7. Clean excess foam from nozzles and equipment with acetone.

CAUTIONS & LIMITATIONS

- Do not expose cans or cases to direct sunlight.
- Keep cans as close as possible to 21°C (70°F). In Winter conditions, one option is to place the cans in a heated storage container.
- To maintain proper application temperature, in Summer like conditions, place the cans in a bucket or container with ice.
- It is mandatory that the tips provided in the boxes be attached to the cans.
- The product is flammable during the application.
- Wear safety goggles and protective gloves during application.
- ADPHALT adhesive can be used to fix polyisocyanurate insulation panels to deck. Panels must not exceed 1200 mm x 1200 mm (4' x 4') in size. For R-Values requiring thicknesses greater than 66.04 mm (2.6"), apply in multiple layers.
- High-density polyisocyanurate support panels in formats of 1200 mm x 1200 mm (4' x 4') and 1200 mm x 2400 mm (4' x 8') and of 6.25 mm (¼") or 12.5 mm (½") thicknesses can also be bonded with ADPHALT.



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