

WATERPROOFING & THERMAL INSULATION

Polyurethane

A high-efficiency dual-action system providing comprehensive thermal and waterproofing insulation in a single spray foam application at engineered density (45 kg/m³). Applied on concrete, metal, or wood substrates with a UV-protective topcoat to achieve maximum cooling energy savings and leak prevention.

APPLICATION PROCESS

- 1 Substrate survey, dry-state moisture verification, and thorough dust clearance
- 2 Spraying rigid polyurethane foam at engineered thickness (3–5 cm) and ≥ 45 kg/m³ density
- 3 Monolithic encapsulation of all expansion joints, pipe penetrations, and surface irregularities
- 4 Application of UV-protective elastomeric topcoat shielding the foam matrix from sunlight
- 5 Density and thickness inspection followed by 48-hour hydrostatic flood test

BENEFITS

- Combined waterproofing and thermal insulation in a single application
- Substantial reduction in air-conditioning energy consumption
- Lightweight, monolithic structure sealing all joints and thermal bridges

APPLICATIONS

- Residential villas and commercial building roofs
- Warehouses, hangars, and corrugated metal (sandwich panel) roofs
- Industrial plants and cold-storage facilities
- Commercial projects requiring strict energy code compliance

SUITED TO PROJECT TYPES

- Residential developments
- Commercial, hospitality & offices
- Industrial & logistics

The next step for your project

Request a quote	www.alzamil.com › Contact › Request a quote
Speak to an engineer	www.alzamil.com › Consultation › Request a consultation
Unified number	920009879
Email	info@zamilco.com

This sheet is compiled from information Al Zamil publishes at zamilco.com and store.zamilco.com. It does not replace official certificates or test reports. When preparing a technical submittal, confirm the values with an Al Zamil engineer.

Al Zamil Industry, Trade & Transport Co. · 2913 Imam Abdullah Bin Saud St., Alhamraa, Riyadh, Saudi Arabia