

# Construction Adhesives Distributed in Vietnam: Report on Product Types, Pricing and Installation Guidelines

*Construction adhesives give structural, load-bearing bonding; sealants provide flexible sealing. Using them interchangeably lowers quality and risks safety.*

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Misunderstandings surrounding the role of [construction adhesives](#) continue to appear across the building industry, often leading to improper product selection and avoidable structural

failures. Although many professionals assume adhesives and sealants serve similar purposes, the two materials are fundamentally different—not only in formulation, but also in safety implications. Construction adhesives are engineered for high-strength, load-bearing bonding,

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Construction adhesives must fully cure before facing stress or water. Surface-dry is not full strength. Kosmos adhesives dry in 12–30 minutes but need 24–48 hours to cure, then withstand ~100 kg/m<sup>2</sup>.”

*Mr. Quang Hoi Tran, General Director of Kosmos Vietnam*

while sealants are designed to create flexible, airtight and watertight joints. Confusing these functions can compromise workmanship and, more importantly, endanger the overall integrity of a project.

A Critical Distinction: “Bonding to Bear Load” vs. “Bonding to Seal”

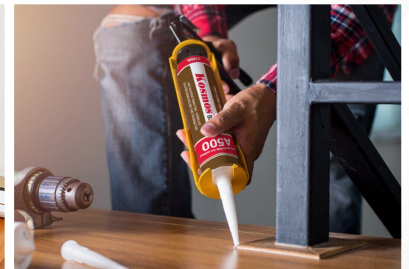
While both adhesives and sealants provide adhesion, their technical roles diverge significantly:

Sealants ([Silicone](#), PU) – Designed to Seal, Not to Carry Load

Sealants are formulated to fill joints and gaps—for example between aluminum frames and glass, or around sanitary fixtures. They create elastic barriers that withstand movement, moisture and temperature changes but do not provide structural strength.



**Construction Adhesives**  
Used to create durable bonds that hold heavy loads, replacing mechanical fasteners like nails or screws.



**Sealants**  
Mainly used to seal gaps (e.g., aluminum frames with glass, toilet base with floor), offering flexibility but not load-bearing strength.

## Construction Adhesives vs. Sealants

Construction Adhesives (No-Nail Adhesives, Two-Component Epoxy) – Engineered for Structural Bonding

Construction adhesives offer rigid, durable, high-strength bonding, acting as a reliable alternative to screws, nails and mechanical fasteners. Sealants adhere only to support sealing performance, whereas construction adhesives depend on adhesion as their primary load-bearing mechanism.

## Major Categories of Construction Adhesives Distributed in Vietnam

### 1. No-Nail Adhesives

Widely adopted in residential, commercial and interior-fit-out projects, no-nail adhesives are available in indoor or outdoor formulations depending on application needs.

#### Key Features:

Strong initial tack and excellent bonding strength

Forms a rigid, durable joint after curing

Approximate load resistance: up to 100 kg/m<sup>2</sup>

Heat resistance from -20°C to 70°C

#### Typical Applications:

Bonding PVC, wood and bamboo-charcoal wall panels

Installing trims, skirting boards and decorative moldings

Mounting lightweight shelves or hooks

Stair tread overlays

Bonding wood, metal, stone or concrete surfaces

Note: Pressure and temporary support are recommended until full curing is achieved.

### 2. Two-Component Epoxy (Part A & B)



#### APPLICATIONS OF NO-NAIL ADHESIVE

- ✓ Bonding wall panels (PVC, wood, bamboo charcoal panels, etc.)
- ✓ Fixing trims, moldings, and decorative profiles
- ✓ Mounting hooks or lightweight shelves on brick or wood walls
- ✓ Attaching stair treads
- ✓ Joining construction materials like wood, metal, stone, and concrete

#### Common Applications of No-Nail Adhesives



#### APPLICATIONS OF TWO-COMPONENT EPOXY ADHESIVE (A&B)

- ✓ Anchoring rebars and anchor bolts into concrete
- ✓ Bonding large-format natural stone on walls or floors
- ✓ Repairing structural cracks in concrete
- ✓ Bonding metals, ceramics, and composites in industry
- ✓ Serving as a waterproof coating for walls, floors, and roofs

#### Applications of Two-Component Epoxy Adhesives (A&B)

A high-performance adhesive system designed for extreme load conditions and demanding environments. The resin (A) and hardener (B) are mixed at a precise ratio before application.

#### Key Features:

Creates exceptionally strong, rock-solid structural joints

Load resistance:  $\sim 30 \text{ kg/cm}^2$  ( $\approx 300,000 \text{ kg/m}^2$ )

Outstanding resistance to water, chemicals and high temperatures ( $-30^\circ\text{C}$  to  $150^\circ\text{C}$ )

#### Typical Applications:

Anchoring bolts and rebars into concrete

Bonding natural stone, granite and heavy slabs

Structural crack repair

Industrial bonding of metals, ceramics and composites

Protective waterproof coatings

Important: Incorrect mixing ratios may prevent proper curing and drastically reduce load-bearing capabilities. As Kohesi Bond (2025) confirms:

“Deviation from the specified epoxy ratio can result in sticky surfaces, weak adhesion and brittle finishes.”

#### Construction Adhesive Pricing in Vietnam (Updated Nov 2025)

No-Nail Adhesives: 32,000 – 45,000 VND per 300ml cartridge

Two-Component Epoxy: 180,000 – 280,000 VND per kg

Prices vary depending on formulation technology, performance grade and brand reliability. Choosing a trusted distributor is essential to ensure safety, stability and long-term value across all construction works.

#### Best Practices for Maximizing Adhesive Performance

To achieve optimal bonding strength and ensure installation reliability, professionals should always follow these principles:

##### Surface Preparation:

Surfaces must be clean, dry and free from dust, oil or contaminants that can weaken adhesion.

##### Strict Compliance with Manufacturer Instructions:

Each adhesive product has specific requirements for open time, curing time and environmental conditions.

Construction adhesives deliver exceptional performance only when applied correctly and within

their technical specifications.

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Kosmos is recognized for:

Reliable product quality aligned with international standards

Innovative and stylish material solutions for modern living spaces

Professional, knowledgeable technical support

Long-standing commitment to customer satisfaction and safety

Today, Kosmos continues to invest in advanced materials, sustainable solutions and nationwide distribution—reinforcing its mission to provide durable, attractive and trustworthy products for Vietnam's construction and interior industry.

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