



Safety Data Sheet

Date of compilation: 2024-07-30

**Keyue-WP 106 Solvent-based Asphalt****Waterproof Bonding Coating****Introduction**

Keyue-WP 106 is a solvent-based asphalt waterproof bonding coating (solvent-based asphalt adhesive) used for road and bridge applications. Its main components include asphalt, high polymer resin modifiers, additives, and solvents. It can be applied by spraying, brushing, or rolling. Once cured, it forms a dense, elastic waterproof coating that provides waterproof protection for concrete or steel bridge decks.

**Application**

- Waterproof bonding layer for cement concrete bridge decks
- Waterproof bonding layer for steel bridge decks
- Bonding layer for pavement renovation

**Typical Features**

- Excellent Waterproof Performance: Penetrates into concrete pores, forming a dense waterproof film that provides excellent protection for the bridge deck structure.
- Strong Adhesion: Excellent adhesion to bridge deck surfaces and good bonding with asphalt paving layers, withstanding the shear forces from vehicle traffic without delamination or slippage.
- Good Elasticity: The coating remains flexible and can accommodate substrate shrinkage or cracking without damage.
- Single Component: Low viscosity, quick curing, and easy to apply.

**Technical Properties**

Property	Value	Test Method
Solid Content (%)	$\geq 42$	JT/T 983
Surface Dry Time (h, $23 \pm 2$ °C)	$\leq 3$	
Thorough Dry Time (h, $23 \pm 2$ °C)	$\leq 8$	
Waterproofness (0.3 MPa, 30 min)	Waterproof	
Tensile Strength (MPa)	$\geq 1.0$	
Elongation at Break (%)	$\geq 600$	
Heat Resistance (120°C)	No flow, no slipping, no dripping	

## Technical Properties

Property		Value	Test Method
Low-Temperature Flexibility (-25°C)		No cracks or breaks	JT/T 983
Adhesion Strength (MPa)	To concrete base	$\geq 1.5$	
	To steel base	$\geq 2.0$	
	To asphalt concrete paving layer	$\geq 1.0$	
Shear Strength (MPa)		$\geq 1.2$	
Thermal Aging	Tensile Strength (MPa)	$\geq 1.0$	
	Elongation at Break (%)	$\geq 300$	
	Low-Temperature Flexibility (-20°C)	No cracks or breaks	

## Application Recommendations

Single component, stir for 3-5 minutes before application to ensure uniformity. Apply by spraying or rolling.

For cement surfaces, perform shot blasting to ensure a solid, dry surface free of laitance and loose materials.

For steel surfaces, perform sandblasting to achieve Sa2.5 cleanliness level and 50-100 $\mu$ m roughness.

Apply two coats with an interval of about 1 hour between them. Material consumption is 0.4-0.8 kg/m<sup>2</sup>.

Precautions: Application temperature should be above 5 ° C. Avoid application on damp substrates. No open flames or sparks in the work area. Workers should wear protective gear.

## Packaging and Storage

Available in 50Kg drums. Protect from sun and rain during transport, and keep away from heat sources, fire, and food. Store in a cool, dry, and ventilated place, away from direct sunlight. Storage temperature should not exceed 45 ° C. Generally, the unopened product is valid for 1 year.

## Safety and Health

Ensure good ventilation in the application area. Refer to the Material Safety Data Sheet for other safety information.

*The technical data and professional knowledge and experience, for reference only. For application methods provided specific project applications, please consult our sales or technical are based on our current personnel for comprehensive technical guidance and service.*