

**SYNERGY &  
PROSPERITY**  
Synergy & Prosperity Building Material Trading LLC  
**Technical Datasheet**

**PU-211: Two-Component Transparent Polyurethane Resin**

**Datasheet**

Properties	Component A	Component B
<b>Physical properties:</b>		
Appearance	Light yellow liquid	Transparent liquid
Viscosity (CPS,25°C)	3,500	2,500
Relative density (g/ml,25°C)	0.961	1.16
Boiling point (°C)	313	N/A
Flash point (°C)	229	158
Auto-ignition Temperature (°C)	449	460
Vapor Pressure (Pa,20°C)	N/A	0.0024
Water solubility	Insoluble	Immiscible
<b>Mixing properties:</b>		
Mixing ratio	1:1	
Pot life after mixture (25°C)	40±10 minutes	
Initial curing time (25°C)	3~4 hours	
Final curing time (25°C)	6~8 hours	

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## Introduction

PU-211 is a transparent two-component polyurethane adhesive for indoor and outdoor resin-bound floor construction. Compared to epoxy, polyurethane has better yellowing resistance, weather resistance, and bonding strength. Perfect for high-end villas, commercial hubs, and public spaces, PU-211 delivers unmatched durability, aesthetic refinement, and effortless maintenance.

## Highlights

- **Heat Resistance:** Stable up to 80°C+. No softening, cracking, or deformation under scorching sun.
- **UV Resistance:** Maintains clarity and gloss for years, resisting yellowing even in relentless UV exposure.
- **Wet-Look Gloss:** Enhances natural stone aggregates with a luxurious, glossy finish—reminiscent of polished marble but far more durable.
- **Stain & Scratch Resistance:** Spills, oils, or heavy foot traffic wipe away effortlessly.
- **Water Permeability:** Optional permeable formulation for areas requiring drainage (e.g., pool decks).

## Applications

Outdoor & indoor permeable rock aggregate sand-based floors & roads, swimming pool bottom, lower bed, etc.

## Constructions (for resin bound)

- Thoroughly clean the base layer before construction to ensure it is clean, dry, and free of any loose debris. Make sure the rock aggregates are dry.
- Fully mix components A and B (A : B = 1 : 1) at the construction site.
- Mix the resin with the aggregates until the mixture is uniform. The usage of resin depends on the type of aggregates used.
- Spread the mixture onto the foundation layer evenly and smoothen the surface.
- One day after construction, the road surface is ready for use.

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