

Mandana Polymer Industrial Group

Manufacturer of Liquid waterproofing membrane Epoxy Adhesive, Epoxy Flooring part making epoxy & Polymer Detergent

Waterproof and colourless surface gloss (WP220/WP210)



Polyurethanes are a widely used type of polymer with special properties. The formulation of polyurethane resin varies depending on its use, and it's known for its toughness, mechanical strength, and resistance to chemicals. This makes it suitable for coating surfaces like stone, metal, concrete, and wood in areas where strong resistance is necessary. Mandanapolymer Knowledge Base Company produces high-quality one-component and two-component polyurethane resins using advanced technology. Polyurethane is known for its strong resistance to wear, impact, and cracking and can cure quickly at room temperature. The (WP210/WP220) product is especially notable for its ability to stretch more than %1500 and its high tear resistance, making it unique in offering both features at the same time

Features and application (WP210/WP220)

Feature	Application
<ul style="list-style-type: none">● Excellent resistance to scratches and wear● Very high stretchability (elongation %1500)● Strong adhesion to all surfaces● High tear resistance● Waterproof● Glossy and clear appearance● Suitable chemical resistance● Easy to apply	<ul style="list-style-type: none">● Protecting and polishing wooden floors and parts● Adding a durable, scratch-resistant layer to wooden surfaces● Making wooden surfaces waterproof and insulated● Insulating urban furniture like park benches● Strengthening and waterproofing natural and artificial stone● Enhancing and waterproofing concrete● Providing colourless insulation for facades, tiles, and stairs● Insulating exterior surfaces of villas

End users

- Contractors and insulators
- Construction painters
- Supervising engineers
- Architects
- Swimming pool installers



Physical and functional characteristics

Polishing and anti-scratch of epoxy surfaces		
Base and number of components	Polyurethane resin (one-part and two-part)	
Physical characteristics	Color	Transparent
	Appearance	Viscous liquid
	Density (25°C)	1.6
	Viscosity(25°C)	600-700 mPa.s
	Weighted%	15.78%
	Volume%	26.35%
	Flammability	Non-flammable
Mixing % of two-component	%10(100gr of resin with10gr of hardener)	
Applicable surfaces	Wood-metal-stone and Roman facade-ceramic and tile	
Performance tools	Roller, pump, pen	
Conditions for Application (Temperature of the environment and materials during use)	Suitable for use outdoors Ambient temperature during application:15-30°C Material temperature during application:20°C	
Usage per m ²	Apply150to200grams per m ² once	
Pot life@25	30min	
Surface drying time at temperatures between 20-30 °C	8-12h/layer	
Time to apply the next layer	12-24 h	
Complete drying time	7days	
Package (kg)	8-16	

Resistance to acids and alkalis

Sulphuric acid 5% W/W	Commonly used detergent 30%w/w	Sodium chloride 10% w/w	Chloride ion 13.4ppm	Saturated lime water	Hydrochloric acid 30%w/w
Ineffective	Ineffective	Ineffective	Ineffective	Ineffective	Ineffective

Maintenance and safety considerations

- Store in a dry place away from sunlight, water, and rain
- Keep at temperatures above 15°C
- In the primary packaging, the storage period at 15-30°C is more than12months
- The product is safe but wear gloves and protective clothing when using it. If it gets in your eyes, wash them out with water

Warranty and After-Sales Service

This product comes with a one-year performance guarantee and ten years of after-sales service