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)



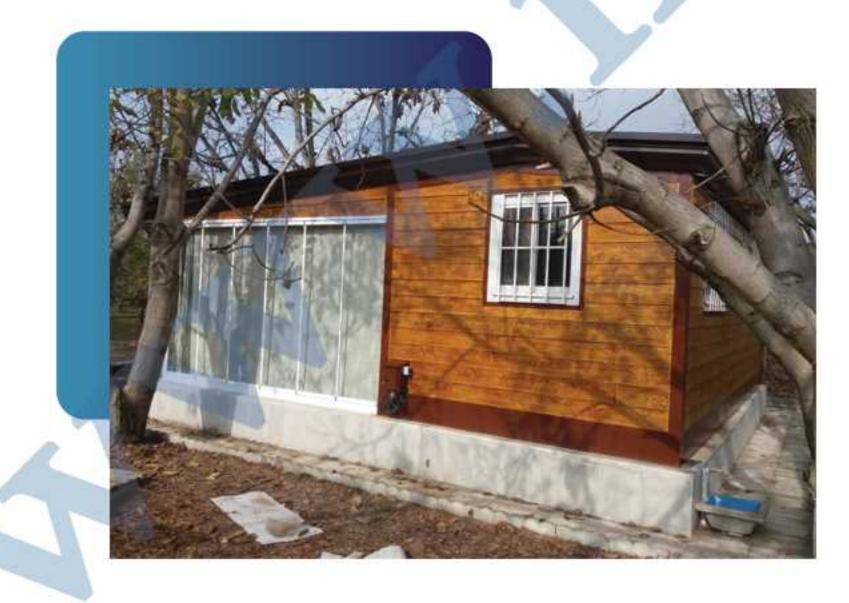
Polyurethanes are a widely used type of polymer with special properties. The formulation of polyurethane resin varies depending on its use, and it's known for its toughness, mechanical strength, and resistance to chemicals. This makes it suitable for coating surfaces like stone, metal, concrete, and 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
 Excellent resistance to scratches and wear 	 Protecting and polishing wooden floors and parts
 Very high stretchability (elongation %1500) 	 Adding a durable, scratch-resistant layer to wooden surfaces
 Strong adhesion to all surfaces 	 Making wooden surfaces waterproof and insulated
 High tear resistance 	 Insulating urban furniture like park benches
 Waterproof 	 Strengthening and waterproofing natural and artificial stone
 Glossy and clear appearance 	 Enhancing and waterproofing concrete
 Suitable chemical resistance 	 Providing colourless insulation for facades, tiles, and stairs
Easy to apply	 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-scra	tch 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	Suitable for use outdoors					
(Temperature of the environment	Ambient temperature during application: 15-30°C					
and materials during use)	Material temperature during application:20°C					
Usage per m²	Apply150to200grams per m²once					
Pot life@25	30min					
Surface drying time at temperatures between 20-30 °C	8-12h/layer					
Time to apply the next layer	12-24h					
Complete drying time	7days					
Package (kg)	8-16					

Resistance to acids and alkalis

Sulphuric acid	Commonly used detergent 30% w/w	Sodium chloride	Chloride ion	Saturated lime	Hydrochloric acid
5% W/W		10% w/w	13.4ppm	water	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 than 12 months
- 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

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