

1、Spray Polyurea High-Elasticity Coating

This product is a two-component high-performance coating composed of resin, color paste, functional additives, nanomaterials, curing agent and other raw materials. It boasts excellent mechanical properties, including superior tensile strength, tear strength and elongation at break; meanwhile, it features outstanding impact resistance, corrosion resistance and wear resistance, making it widely applicable to various fields.

【Technical Parameters】

Item	Performance Indicators
Density (g/cm³)	A: 1.05~1.15 B: 1.05~1.15
Appearance	A: Pale yellow liquid B: Liquid of various colors, color adjustable
Viscosity (23°C, cps)	A: 1800~2200 B: 1100~1500
Solid Content	≥99%
Tensile Strength (MPa)	20~38
Tear Strength (kN/m)	90~150
Shore Hardness A	50~95
Surface Drying Time (s)	35~60
Mixing Ratio (Volume Ratio)	1:1
Salt Spray Resistance (GB/T 1771-2007, 2000h)	No rust, no blistering, no peeling
Oil Resistance (0# Diesel, 90d)	No rust, no blistering, no peeling
Liquid Medium Resistance (20% H ₂ SO ₄ , 90d)	No rust, no blistering, no peeling
Liquid Medium Resistance (20% HCl, 90d)	No rust, no blistering, no peeling

Liquid Medium Resistance (20% NaOH, 90d)	No rust, no blistering, no peeling
Liquid Medium Resistance (15% NaCl, 90d)	No rust, no blistering, no peeling
Color	Customizable according to user requirements

【Product Features】

- Sprayed with professional equipment: surface drying in 15 seconds, curing in 10 seconds, capable of bearing pressure in 100 seconds, and reaching optimal performance within 24 hours;
- Superior impact resistance, enhanced wear resistance, high tear strength, and excellent flame-retardant and explosion-proof properties, making it widely applicable to military equipment;
- Multiple customizable coating colors and adjustable hardness, with rigid or elastomeric formulations tailored for different fields;
- Rapid forming on any curved surface, with no dripping or sagging even when sprayed upwards;
- Physical protective coating with zero volatility: free of organic solvents, chlorofluorocarbons (CFCs) and other additives, and no volatile organic compound (VOC) pollution;
- One-time construction to achieve the required thickness, with seamless repair effect. Little affected by ambient temperature and humidity, and excellent waterproof performance;
- Self-healing function: capable of repairing scratches automatically, suitable for special protection applications.

【Application Fields】

- Petroleum & Petrochemical Industry: Corrosion resistance, salt spray resistance and seawater erosion prevention for oil storage tanks;
- New Energy Industry: Wind turbine blade coatings, automobile chassis protection;
- Rail Transit: Waterproof layers for subway platforms (moistureproof and chemical erosion resistance);
- Shipping & Pipe Networks: Water barrier layers for ship cabins, pipeline sealing.

【Packaging Specifications】

Component A: 25 kg/barrel, 200 kg/barrel, customizable;

Component B: 25 kg/barrel, 200 kg/barrel, customizable.

Brushable Polyurea High-Elasticity Coating

This product is polymerized by the reaction of specially modified polyurethane resin and innovative polyisocyanate curing agent. Due to the excellent weather resistance of both the selected resin and curing agent, the formed film exhibits high gloss and color retention, making it suitable for long-term outdoor use. The dense structure and hydrophobic properties of the cured film endow the coating with outstanding waterproof performance, along with excellent physical and chemical properties. It is an innovative, upgraded and upgraded product with the most superior comprehensive performance, featuring corrosion resistance, wear resistance and convenient construction.

【Technical Parameters】

Item	Component A	Component B
Appearance	Color customizable	Light-colored liquid
Viscosity at 25°C (cps)	1000~3000	1000~3000
Solid Content (%)	≥90	≥90
Mixing Ratio (Weight Ratio)	1	1
Surface Drying Time (h)	2.5	2.5
Pot Life (h) at 23.5°C	0.5	0.5
Overcoating Time (h)	Minimum 6h; Maximum 24h (25°C)	Minimum 6h; Maximum 24h (25°C)
Theoretical Coverage Rate (Dry Film Thickness)	0.14 kg/m ² for 100μm dry film	0.14 kg/m ² for 100μm dry film
Item	Test Standard	Result
Shore Hardness	GB/T 531.1- 2019	65A

Adhesion (MPa) - Concrete Substrate	GB/T 5210-2006	3.2
Flexibility (Bending Test)	GB/T 1731-2020	No cracks or peeling after bending test with 10mm diameter
Elongation at Break (%)	GB/T 16777-2008	400
Impact Strength (kg·cm)	GB/T 20624.2-2006	50
Weather Resistance - Accelerated Aging (1000h)	GB/T 14522-1993	Gloss loss < 1, Chalking < 1
Product Corrosion Resistance		
Acid Resistance (30% H ₂ SO ₄ or 10% HCl, 30d)	No corrosion, no blistering, no peeling	
Alkali Resistance (30% NaOH, 30d)	No corrosion, no blistering, no peeling	
Salt Resistance (30g/L NaCl, 30d)	No corrosion, no blistering, no peeling	
Salt Spray Resistance (2000h)	No corrosion, no blistering, no peeling	
Oil Resistance (0# Diesel, 30d)	No corrosion, no blistering, no peeling	

【Product Features】

- High solid content and low viscosity, excellent leveling property; the cured film is tough, dense, full, glossy and bright-colored;
- No discoloration, no yellowing, no chalking, aging resistance, with excellent weather resistance and decorative properties of gloss and color retention;
- Outstanding adhesion, and good compatibility with polyurethane, epoxy, alkyd,

phenolic and other coatings;

- Excellent scratch resistance and stain resistance;
- Superior impact resistance, collision resistance and wear resistance;
- Excellent corrosion resistance and chemical medium resistance, such as acid, alkali and salt corrosion resistance;
- Can be directly applied as a topcoat on metal surfaces;
- Free of benzene-based solvents, environmentally friendly.

【Application Fields】 :

This product is used for corrosion protection in numerous fields, including natural gas pipelines, vehicle frames, axles, ship hulls (including decks), shelves, steel structures, storage tanks, containers, valves, tank trucks, swimming pools, sewage tanks and chemical cofferdams.

【Packaging Specifications】 :

Component A: 25 kg/barrel, 200 kg/barrel, customizable;

Component B: 25 kg/barrel, 200 kg/barrel, customizable.