



Steel Structure Waterproof & Anti-Corrosion (TH8051)

Polyurea elastomer is a compound formed by the reaction of isocyanate component (component A) and amino compound component (component R).

Spray polyurea elastomer (SPUA) technology is a new solvent-free and pollution-free green construction technology developed to meet the needs of environmental protection after (pollution-free) coating technologies such as high solid coating, water-based coating, radiation curing coating and powder coating in recent 20 years.

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APPLICATION

- ▶ Bridge
- ▶ Rigid sculpture
- ▶ Airport
- ▶ Communication device



FEATURES

- ▶ Excellent corrosion resistance and chemical resistance
- ▶ Not sensitive to humidity, high and low temperature environment, good thermal stability
- ▶ Good adhesion to various substrates, good water resistance
- ▶ Good environmental protection, solvent-free, safe construction and environment-friendly
- ▶ The coating is dense and continuous without seams, resistant to abrasion, salt spray and oil
- ▶ Excellent physical properties, high tensile strength, high elongation, high tear strength and high electrical strength
- ▶ Mechanized construction, fast curing to form a film, can be sprayed and formed on any special-shaped surface without sagging

ATTENTION

- ▶ During construction, the substrate temperature must be 3°C higher than the dew point temperature
- ▶ Before using the product, component B should be fully stirred
- ▶ The system is 100% solid content, and diluent is strictly prohibited
- ▶ Good ventilation must be maintained during construction in confined space
- ▶ When using this product, you must wear work clothes, gloves, goggles, gas masks and other protective equipment

SPECIFICATIONS

Items		Parameters
		TH-8031
Solid Content (%)		99
Gel Time (s)		15
Surface Dry Time (s)		2
Hardness (Shore D)		90
Tensile Strength (MPa)		19
Elongation at Break (%)		480
Tear Strength (N/mm)		65
Adhesion (MPa)	Steel	11
	Concrete	3.5
Wear Resistance (750g/500r)/mg		5
Low Temperature Flexibility (- 30 °C 180 ° bending at 10mm axis)		No cracking
Electric Strength (MV/m)		28
Salt Spray Resistance (2000h)		No embroidering, no blistering, no shedding
Water Resistance (30d)		No embroidering, no blistering, no shedding
Liquid Medium Resistance (10%H ₂ SO ₄ , 10%HCl, 10%NaOH, 10%NaCl, 30d)		No embroidering, no blistering, no shedding
Oil Resistance (0# diesel, crude oil, 30d)		No embroidering, no blistering, no shedding

Product Ratio

Material A : material B = 1:1

Material A: 220kg/barrel; material B: 210kg/barrel

Product storage

Storage temperature: 5-40 °C

Under normal storage and transportation conditions, the storage period shall not be less than 6 months from the date of production

Store in a cool and ventilated environment, avoid direct sunlight, do not approach the fire source and prevent collision