



Municipal and Other Key Projects Waterproof (TH8021)

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

- ▶ Grandstand
- ▶ Flyover
- ▶ City square
- ▶ Roof



FEATURES

- ▶ High elasticity, able to withstand certain deformation of the structure
- ▶ Dense and continuous coating without seams, good waterproof and moisture-proof performance
- ▶ Excellent resistance to acid, alkali, salt and atmospheric aging
- ▶ 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
- ▶ Fast curing to form a film, which can be sprayed and formed on any special-shaped surface without sagging
- ▶ Excellent physical properties, high strength, high elongation and high tear strength. Good wear resistance, impact resistance and trampling resistance

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

Items		Parameters
		TH-8021
Solid Content (%)		99
Gel Time (s)		20
Surface Dry Time (s)		55
Tensile Strength (MPa)		20
Elongation at Break (%)		500
Tear Strength (N/mm)		60
Low Temperature Bending Property (°C)		-40
Impermeability (0.4MPa,2h)		Impervious
Heating Expansion Rate	Elongation (%)	0.5
	Shrink (%)	0.5
Bond Strength (MPa)		3.0
Water Absorption (%)		2.5
Agingn at Constant Elongation	Heating Aging	No crack and deformation
	Artificial Climate Aging	No crack and deformation
Heat Treatment	Tensile Strength Retention (%)	101
	Elongation at Break (%)	480
	Low Temperature Bending Property (°C)	-39
Alkali Treatment	Tensile Strength Retention (%)	102
	Elongation at Break (%)	480
	Low Temperature Bending Property (°C)	-38
Acid Treatment	Tensile Strength Retention (%)	98
	Elongation at Break (%)	475
	Low Temperature Bending Property (°C)	-38
Salt Treatment	Tensile Strength Retention (%)	98
	Elongation at Break(%)	490
	Low Temperature Bending Property (°C)	-37
Artificial Climate Aging	Tensile Strength Retention (%)	99
	Elongation at Break(%)	480
	Low Temperature Bending Property (°C)	-38

Hardness (ShoreA)	90±5
Wear Resistance (750g/500r)/mg	20
Impact Resistance (kg/m)	1.2

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