



## **Polyaspartic Anti-Corrosive Coating (TH601)**

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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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## FEATURES

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- ▶ High hardness, scratch resistance and stain resistance
- ▶ Excellent wear resistance and impact resistance
- ▶ High solid and low viscosity, good leveling and convenient construction
- ▶ Good environmental protection, safe construction and environment-friendly
- ▶ Excellent moisture resistance, salt spray resistance and weather resistance
- ▶ The coating is tough and dense, the color is full and bright
- ▶ No discoloration, no yellowing, no chalking, aging resistance, excellent weather resistance, gloss and color retention
- ▶ It has strong adhesion to the base, and has good compatibility with polyurea, polyamino acid, and epoxy materials

## ATTENTION

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- ▶ Before using the product, component B shall be fully stirred
- ▶ After painting, the raw materials in the packaging barrel must be tightly covered to prevent moisture absorption
- ▶ Keep dry and clean during the construction, and strictly prohibit contact with water, alcohol, acid, alkali, etc
- ▶ Before use, ensure that the raw materials are accurately and evenly mixed, pour out as much as you use, and quickly close the barrel cover. The used paint shall not be poured back into the original barrel. The poured paint must be used up within 1 hour

Items		Parameters
		TH-601
Volatile Organic Compound (VOC) Content (g/L)		150
Nonvolatile Content (%)		88
Drying Time (h)	Surface Dry Time	1
	Actual Dry Time	4
Coating Appearance		Normal
Bending Test (mm)		Qualified
Impact Resistance (cm)		Qualified
Wear Resistance (1000g/1000r)/g		0.02
Pencil Hardness (scratch)		H
Adhesion (pullmethod)(MPa)		12
Acid Resistance [5% (mass fraction) H <sub>2</sub> SO <sub>4</sub> , 168h]		No blistering, no rust, no cracking, no peeling
Alkali Resistance [5% (mass fraction) NaOH, 168h]		No blistering, no rust, no cracking, no peeling
Resistance to Artificial Climate Aging (1500h)		No blistering, no rust, no cracking, no peeling, no chalking, discoloration ≤level 2, loss of gloss ≤level 2
Moisture Resistance	Atmospheric Corrosion Grade (C2~C3)	No blistering, no rust, no cracking, no peeling after 240h
	Atmospheric Corrosion Grade (C3~C4)	No blistering, no rust, no cracking, no peeling after 720h
Moisture Resistance	Atmospheric Corrosion Grade (C2~C3)	No blistering, no rust, no cracking, no peeling after 480h
	Atmospheric Corrosion Grade (C4~C5)	No blistering, no rust, no cracking, no peeling after 1440h

## Product Ratio

Material A : Material B = 2:1

Material A: 18kg/barrel; Material B: 9kg/barrel

## **Product Construction Environment**

Dew point:  $\geq 3^{\circ}\text{C}$

Relative humidity: 35-85%

Ambient temperature:  $-5\sim 35^{\circ}\text{C}$

## **Application Guidance**

Recommended dry film thickness: 60-100  $\mu\text{m}$

Recommended brushing methods: brushing, rolling, airless spraying and air spraying,

Coating interval:  $\geq 3\text{h}$

## **Product storage**

Storage temperature:  $5-35^{\circ}\text{C}$

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