

ZX-FS-01

Waterproof coating

General

Spray polyurea waterproof coating ZX-FS-01 is the newly developed third-generation polyurea elastomer, and its performance fully complies with the provisions of GB/T 23446-2009 "Spray Polyurea Waterproof Coating Materials". The product is applied with dedicated spraying equipment, and the coating cures rapidly in an instant, forming a dense waterproof coating with high strength, high elongation and no seams. It can be widely used in waterproofing projects of Marine facilities, large-scale building structures, chemical infrastructure, water conservancy, etc.

Composition

Polyurea elastomer is an elastic substance produced by the reaction of component A isocyanate and Component B amino mixed resin

Product properties

Product properties		Technical index
Properties of Coating color	solid content/%	≥98
	gelation time/s	≤45
	surface drying time/s	≤120
Sex can Coating layer	tensile strength/MPa	≥16
	elongation at break/%	≥450
	tear strength/(N/mm)	≥50
	bonding strength/MPa	≤2.5
	Low-temperature bending property/°C	≤-40
	watertightness (0.4MPa, 2h)	waterproof
	water absorption/%	≤5

	hardness	≥80
	abrasive resistance (750g/500r),mg	≤30
	shock resistance/(kg/m)	≤1.0

Category	Project		Technical index
Property of coating	artificial weathering aging	Tensile strength retention rate/%	80-150
		Fracture tensile rate/%	≥400
		Low-temperature bending property/°C	≤-35
	acid treatment	Tensile strength retention rate/%	80-150
		Fracture tensile rate/%	≥400
		Low-temperature bending property/°C	≤-35
	alkali treatment	Tensile strength retention rate/%	80-150
		Fracture tensile rate/%	≥400
		Low-temperature bending property/°C	≤-35
	foregilding	Tensile strength retention rate/%	80-150
		Fracture tensile rate/%	≥400
		Low-temperature bending property/°C	≤-35

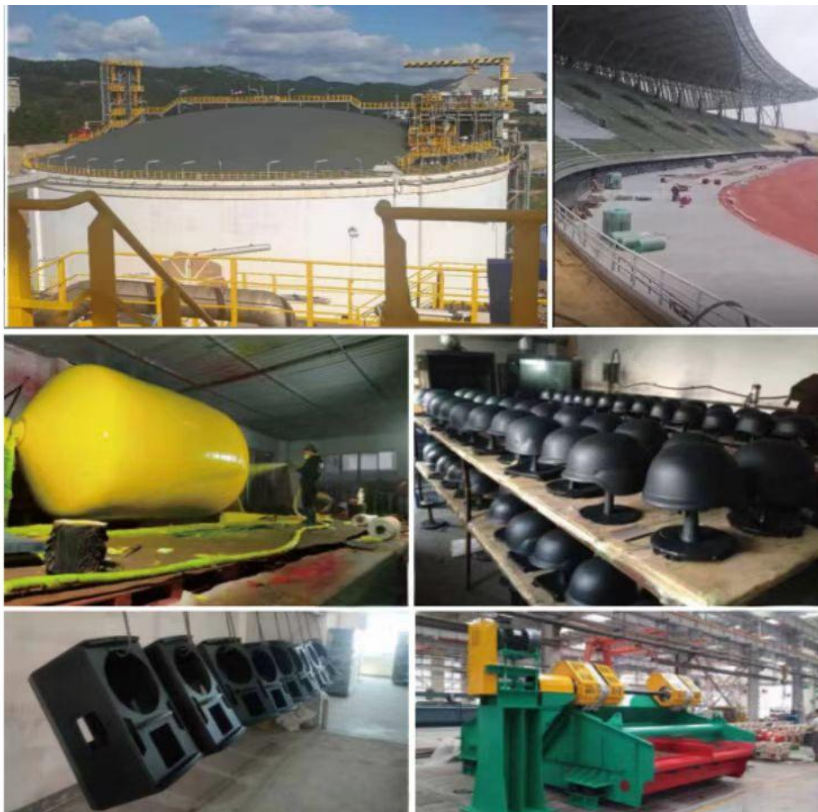
Application

ZX-FS-01 Spray polyurea waterproof coating The technical advantages of polyurea

1. It cures quickly, gels in 10 seconds and reaches walking strength in 10 minutes. No sagging on complex surfaces; The short downtime is well-received by the owner
2. It is not sensitive to temperature and moisture, and is minimally affected by environmental temperature and humidity during construction
- 3.100% solid content, zero VOC, environmentally friendly
- 4.The thickness is achieved in one construction, overcoming the drawbacks of multi-layer construction.

- 5.Excellent physical properties, such as high tensile strength, elongation, medium resistance, wear resistance, impact resistance, etc
- 6.The adjustable range of hardness is wide (elastomer/rigid body)
- 7.The coating is dense and seamless, forming a skin-like structure, and has excellent waterproof and anti-corrosion effects
- 8.It has good adhesion to substrates such as concrete and steel and does not delaminate.
- 9.It has good weather resistance and the aliphatic system can be used outdoors for a long time
- 10.The construction speed is fast, with a single machine capable of handling over 1,000 square meters per day
- 11.It does not require maintenance after being put into use, saving expensive maintenance costs. One investment, lifelong benefits.

ZX-FS-01 Application scene



Packaging and precautions:

- 1.Storage conditions:ZX-FS-01 Two-component polyurea should be stored in a cool, dry and well-ventilated environment. Avoid direct sunlight to prevent affecting the performance and stability of the coating. Meanwhile, the storage temperature should be controlled between 5℃ and 30℃ to prevent the coating from deteriorating due to excessively high or low temperatures.

2.Storage container: The container for storing two-component polyurea should be well sealed to prevent the coating from coming into contact with moisture, oxygen and impurities in the air. It is recommended to use containers made of stainless steel or special materials, such as glass jars or plastic buckets. These containers have excellent sealing performance and can effectively prevent the paint from getting damp, caking and deteriorating.

3.Storage period: The storage period of two-component polyurea is usually 6 months to 1 year. During the storage period, the performance and stability of the coating should remain stable. Coatings that have exceeded their storage period may undergo quality changes, such as increased viscosity and longer curing time. Therefore, it is not recommended to continue using them.

4.Transportation requirements: During transportation, two-component polyurea should be protected from shock, pressure, moisture and sun. It is recommended to use professional transportation tools, such as containers and special vehicles, to reduce the loss of coatings during transportation. At the same time, the paint should be placed inside the vehicle compartment to avoid direct exposure to sunlight, so as to prevent the paint from overheating, caking and deteriorating