

# KS-22 SPRAYING-APPLIED ANTICORROSIVE POLYUREA



## PRODUCT DESCRIPTION

KS-20 spraying-applied anticorrosive polyurea is a flexible polyurea material mainly composed of semi-prepolymer, polyether and chain extender, which moulding through the spot spraying by using professional equipment. It is improved on the polyurea waterproof coating, which has better corrosion resistance and excellent mechanical properties and waterproof function.

- Fast curing. It can be continuously sprayed moulding in any curve, facade and top, not producing sagging as well as keeping dense and seamless.
- Excellent corrosion resistance to effectively protect the substrate from corrosion.
- Construction convenience, high efficiency, one construction can meet the designed required thickness (hundreds of microns to several centimeters).
- 100% solid content, free of VOC and don't contain heavy metals, environmentally friendly.
- Excellent physical and chemical properties, good adhesion with various of substrates.
- Non-slip, impermeable, wear-resistant, corrosion-resistant, can withstand the erosion

of the majority of materials.

- The service temperature range is  $-45\text{ }^{\circ}\text{C}$  ~  $150\text{ }^{\circ}\text{C}$ .
- Mechanical construction, professional, convenient and controllable.

## WHERE TO USE

- Workshop floor of chemical, petroleum, petrochemical and other industries, and storage tank, neutralization pool, drainage ditch, etc.;
- Structure of refuse landfill, sewage disposal pool, exhaust gas filter tower, etc.;
- Anti-corrosion and wear-resistant protection for the floor of production workshop and warehouse;
- Steel structure platforms such as metal pipes, bridges, vessel decks, etc.

## CONSTRUCTION CONDITION

- Requirement for the substrate: The concrete substrate should be cleaned, repaired and polished to a certain roughness condition. After the enough time of maintenance, the concrete strength must be C25 or above, and moisture content should be less than 6%. When the substrate is ready, the next process should be carried out as soon as possible.
- Environmental temperature and humidity requirements: The construction environment temperature is between  $5\text{--}35\text{ }^{\circ}\text{C}$ , and the substrate's temperature is at least  $5\text{ }^{\circ}\text{C}$  higher than the air temperature. The humidity range should be between 30~80%.
- Ventilation condition: Keep ventilation during construction, but don't construct the primer when there is strong wind.

## TECHNICAL DATA BASED FOR REFERENCE

No.	ITEM		INDEX	TEST STANDARD
1	Gel time /s		≤45	HG/T 3831-2006
2	Tack free drying time /min		≤10	
3	Hardness (shore A)		≥75	
4	Tensile strength /MPa		≥10	
5	Elongation at break / %		≥150	
6	Tear strength/N/mm		≥40	
7	Adhesive strength /MPa	Concrete	≥2.5(or substrate destroyed)	
		Steel	≥4.5	
8	Wear resistance /[(750g/500r)/mg]		≤40	
9	Impact resistance /(kg · M)		≥1.0	
10	Salt fog resistance (2000h)		No corrosion, no blistering, no peeling	
11	Water resistance (30d)		No corrosion, no blistering, no peeling	
12	Oil resistance (0# diesel, crude oil, 30d)		No corrosion, no blistering, no peeling	
13	Resistance for chemical liquid (10%H <sub>2</sub> SO <sub>4</sub> , 10%HCL, 10%NaOH, 3%NaCL, 30d)		No corrosion, no blistering, no peeling	

## CONSTRUCTION NOTES

- The component A and B should be stirred evenly before mixing them. It is recommended to stir and spray the material at the same time if it can.
- The mixing ratio of component A and B by volume is A:B=1:1, and don't allowed mixed with any thinner material.
- The construction must be constructed by professional constructors with professional spraying equipment. When spraying the material, the material temperature should be controlled between 50~80°C.
- Normally, the next process should be carried out on 12 hours after previous polyurea. It should apply one layer of polyurethane if the next process is carried out on more than 24 hours after previous polyurea. It also needs apply one layer of polyurethane if there is rain or other bad weather after the previous construction of polyurea.
- Normally, it should be maintained for more than 7 days after finish the construction, to ensure the best performance.

## PROTECTION AND SECURITY

- Protective glasses, work clothes and shoes and hats are required for construction operations. During the construction, it is avoided contact with the skin, and once in contact with the skin, it is recommended to wash with warm water and detergent, if necessary, wash with a plastic brush or a steel ball. If inadvertently splashed into the eyes, need to wipe immediately and rinse with plenty of water, and go to the hospital for help.
- Normally, the fully dry coating is non-toxic and very safe.

## RECOMMEND USAGE

Normally, the recommended usage is 2.4kg/m<sup>2</sup> for 1mm thickness polyurea film.

## PACKING

420kg/set, KS-22A: 200kg/drum; KS-22B: 220kg/drum

## STORAGE AND TRANSPORTATION

- The coating should be sealed and stored in a dry, cool and well-ventilated condition, avoiding sun and rain and keeping away from fire.
- In the original packaging state and the prescribed storage conditions, the product has a shelf life of 12 months from the date of production.
- After open the drum, please use it as soon as possible and seal it again when not in use.
- The materials is not content solve and can be shipped as normal cargo. It shall be stacked stationary and avoid sun and rain and violent collision when transporting.

## ATTENTION

The information disclosed above is based on our knowledge and experience, and we believe it is correct and feasible. However, it must not be extended to the protection of end users, because the requirements of end users are related to many factors, which are closely related to correct design, construction, management, supervision, and so on. We will never be held responsible for incorrect using results and incorrect construction results, and we recommend that you perform relevant verifications before construction. If you have any questions, please contact Keshun Waterproof Technology Co., Ltd.



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