

Aquacoat KS-20

Two Component Spraying-applied Polyurea Coating



Product Description

KS-20 consist of unique blend of semi-prepolymer, polyether, and chain extenders. It is a cutting-edge solution for various protective and waterproofing applications. It is formulated to be applied with specialized spray equipment, resulting in a seamless, robust, and durable protective layer.

Product Features

- **Seamless Protection:**provide a smooth, continuous,and seamless protective layer without joints or seams.
- **Eco-Friendly:**Solvent-free formulation.
- **Fast Cure:**Rapid curing minimizes down-time and allows for a swift return to service.
- **Tough Shield:**High durability and resistance to abrasion, impact,and chemicals.
- **Strong Bond:**Excellent adhesion to various surfaces,ensuringlong-lasting performance.
- **Flexible Defense:**Maintains flexibility in extreme temperatures,accommodating structural movement.
- **Chemical Resilience:**Resists various chemicals,making it suitable for corrosive environments.

Where To Use

- Railways, bridges, tunnels, water conservancy dams and other large building projects;
- Waterproof & insulation integration for the existing and new roof, ground, underground of military buildings,civil buildings, factories, municipal buildings;
- Waterproof for sports theater,water playgro-und,artificial river/lake, landscape pool and other building structures;
- Waterproof & anti-collision for cars, ships,buoys,
- indicator lights and other marine equipment;
- Emergency rescue project.

Packaging

400L/set: KS-20 component A:200L/bucket, Component B:200L/bucket

Recommend Usage

2.4kg/m² for 2mm thickness polyurea film. (Note: The data belongs to the calculation of standard experimental environment and is for reference only. The actual amount should be calculated according to the site base surface.)

Storage And Transportation

- Products of different categories should be separated from each other during storage and transportation.
- The storage temperature should be maintained between 5°C~ 40°C.Do not approach the fire,avoiding exposure to direct sunlight and rain,preventing collision.Adequate ventilation should be ensured during storage.
- Shelf life is 12 months from the date of production under appropriate storage conditions.

Technical Data Based For Reference

No.	ITEM	INDEX	TEST STANDARD
1	Gel time / s	≤45	GB/T 23446-2009
2	Tack free drying time / s	≤120	
3	Hardness (shore A)	≥80	
4	Tensile strength / MPa	≥16	
5	Elongation at break / %	≥450	
6	Tear strength / N/mm	≥50	
7	Adhesive strength / MPa	≥2.5(Or substrate destroyed)	
8	Wear resistance /[(750g/500r)/mg]	≤30	
9	Impact resistance / (kg · m)	≥1.0	

Construction Procedures

- 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℃.
- 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.