YUREA HCR120

Chemical Resistance Special Coating

PRODUCT DATA SHEET

DESCRIPTION

Yurea HCR120 is a 100% solid, two-component solvent-free polyurea coating. Yurea HCR120 has high surfacehardness, abrasion and scratch resistance, and excellent elasticity, which can withstand the stress caused by concrete settlement or thermal expansion and contraction, and has excellent corrosionresistance.

Yurea HCR120 is mainly designed for wear-resisting, anti-corrosion and waterproof of concrete, asphalt, glass fiber reinforced plastics, wood, metal and other surfaces, such as car chassis, body armor, car body, oil storage tank inner and outer walls, garbage power plant unloading platform, garbagepool, container, floor, parking lot, acid and alkali pool, etc. After curing, the surface of Yurea HCR120 has sufficient compressive strength and can walk vehicles for a long time.

FEATURES & BENEFITS

- It is resistant to hydrolysis and can withstand long-term immersion in water
- Anti-chemical corrosion, excellent corrosion resistance, and can withstand the corrosionof most industrial chemicals. For example, it is resistant to 30% sulfuric acid, 15% hydrochloric acid, 60% sodium hydroxide, etc.
- Anti-model, enduring long-term humid environment
- Can be used for treated concrete ground
- It can also be used for asphalt pavement
- It can also be used on metal surfaces such as carbon steel after sand blasting
- Adhesion: excellent when used with recommended primer
- Wear resistance: it can provide better wear resistance in the face of wear and mechanical damage

TYPICAL CHARACTERISTICS

Physical Data

Mass solid content	: 100%
Gel time	: 24℃, 45 seconds at 50% relative humidity
Surface drying time	: 24℃, 1 minute at 50% relative humidity
Solidification time	: 24 hours 90%
Tensile strength	: 24℃, 15 MPa
Elongation at break	: 24℃, 120%
Tear strength	: 95kN/m
Hardness	: Shore D55
Impact and abrasion resistance	: 24h/(kg/㎡)
Impact resistance	: Through 160 inch-pound front and back impact
Adhesion performance of primed wood	: 2.5 MPa concrete damage
Steel without primer	: Damaged by 14 MPa adhesive
Water absorption	: <2.5% after soaking for 7 days
High temperature stability	: Without aging, hardening or flowing
Low temperature flexibility	: -50℃
Volatile organic content (VOC)	: 0g/L
Impermeability	: Impermeable, 0.4 MPa, 4 hours
Temperature range for normal use	: -45℃ - 100℃

SIMPLE STEPS

Remove grease, loose attachments; Grinding or sandblasting; Priming Construction Yurea HCR120 to specified thickness; Yurea HCR120 curing; Check whether there are holidays and defects in the coating, and mark them; Repair defects.

CONSTRUCTION PROCESS

If the humidity is higher than 85%, the difference between the temperature of the coated surfaceand the dew point temperature is less than 3 degrees, no construction is allowed. The temperature of the base surface should be above 10℃, and construction should not becarried out if it exceeds 38℃.