LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED

TDS (Technical Data Sheet)

P/N： Pure Polyurea Coating
Name： Pure Polyurea Coating PS500A

Customer： N/A
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Customer Desc： N/A

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Approved By： Sha LIU

Version History

Rev.	Status	Revision Description	Author/Approved	Date
A	Approved	Initial Release	Sha LIU	2016-01-18

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Product Name: Pure Polyurea Coating
Model No: PS500A-Pure

1.Description

Pure Polyurea Coating PS500A is a 100% solid, fast curing, two component, and aromatic. 100% The Pure polyurea coating system is derived from a reaction of an Isocyanate semi-prepolymer, Poly-amine resin, and a pigment, which has the advantages of high strength, good performance, and quick construction.Based on the high reactivity and fast curing property, it can be sprayed forming at any bent, inclined and vertical surface without sagging. With super adhesive strength and impact-resistant characteristics, the coating is flexible, impact-resistant, and seamless and is able to completely insulate air, water, and oxygen penetration. It integrated anti-corrosion, waterproof, wear resistance, aging resistant performances, no pulverization and crack peel up or fall down after long- term outdoor work with alternating ambient conditions of cold, heat, rain and snow. It is the optimum choice where a tough, flexible, impact resistant, abrasion resistant waterproofing system which exhibits extraordinary performance characteristics.

2.Features

- 100% solid, VOC free, no solvents, environmental protection
- Seamless coating
- Fast curing, can be sprayed on any surface, slope, vertical surface
- Elongation, high flexibility, can adapt to the basic cracks and slight deformation
- Excellent tensile and structural strength
- Good aging resistance
- Excellent thermal stability
- Excellent impact and abrasion resistance
- Excellent chemical resistance
- Excellent flexibility
- Excellent crack-bridging properties
- Convenient construction, spraying a film

3.Performance

Solid content	100%
Hardness (Shore A)	85-96
Density	1.05gr/cm3
Elongation at break	≥450%
Tensile strength	19MPa
Tear strength	≥60N/mm
Water impermeability	0.4MPa,60min
Wear resistance （750g，500r）	30mg
Impact resistance	1.5kg.m
Electric strength	15kv/mm
Temperature variation	-35---+120°C
Heating temperature	55-65°C
Recommended thickness	＞1500μm
Operating temperature range	0-35°C
Gel time(sec)	7-15
Tack free time(sec)	30-50
Water resistance（30d）	no rust no bubbles no peel
Acid resistance (10%H2SO4 or 10%HCI, 30d)	no rust no bubbles no peel
Alkali resistance 10%NaOH, 30d	no rust no bubbles no peel
Salt resistance 60g/L, 30d	no rust no bubbles no peel
Salt spray resistance （2000h）	no rust no bubbles no peel
Oil resistance 0# diesel crude oil 30d	no rust no bubbles no peel

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4. Applications

- Metal, concrete, wood, and foam roofing
- Industrial floors
- Hospitals, factory, parking lots and garages
- Water & wastewater linings
- Pools, swimming pools
- Water tanks and pipes
- Truck bed and undercarriage liner
- Roads , bridge decks, railways and high speed railways
- High abrasion applications
- Oil and gas industry，Marine industry
- Water parks, aquariums linings and play grounds
- Joint fill and sealant

5.Construction method

1) Spray equipment: Spray polyurea materials must be constructed using a dedicated (1:1) two-component spray equipment. Such as Graco's H-XP3 and so on.

2) Construction environment requirements: In order to achieve the best coating effect, the site requires ventilation, the ambient temperature should not be lower than 10 °C, the substrate temperature is higher than the dew point of 5 °C, and the air humidity is less than 80%.

3) Surface treatment of the substrate:

a. Leveling the cement surface: leveling the substrate with cement mortar.

b. Grinding of the substrate: the substrate requires fine pitting (to be flat), the surface of the substrate is polished, the scar and the floating slurry are removed, and the position of the negative angle of the yin angle is treated with emphasis, and the yin angle is straight and yang. The corner suggests eight-point angle processing.

c. Cleaning: The dirt on the surface of the substrate cleaned with oil-free, water-free compressed air will clean up the debris that affects the construction of polyurea.

4) Brush primer: brush the EP1304 or HP6303K concrete special primer, evenly brushed, no leakage coating, no defects.

5) Scrape putty: Apply putty to seal the trachoma and micropores on the concrete surface.

6) Spray polyurea: Spray with special polyurea spraying equipment and polyurea spray gun. Use cross method to repair leak spray and reduce stress.

7) Spraying polyaspartic polyurea topcoat: Spraying with special polyurea spraying equipment and polyurea spray gun, spraying evenly without defects and leaking spray.

6.Package

Two-component, A component 220KG / 200L barrel, B component 210KG / 200L barrel.

7.Color

Spray polyurea material standard color is gray, can also provide other colors according to user requirements

8.Safety

Spraying polyurea materials should be equipped with basic labor protection measures during it was be used.It is recommended that operators be equipped with protective clothing, goggles, plastic gloves, masks and other protective equipment.

9.Storage/Shelf Life

Ideal storage condition is 5-35 ℃ in cool and dry place, avoid direct sunlight. / Nine months

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