

LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED

TDS (Technical Data Sheet)

P/N: Mining Equipment Ultra Anti-Abrasion Polyurea Coating
Name: Mining Equipment Ultra Anti-Abrasion Polyurea Coating PS600C

Customer: N/A
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Customer Desc: N/A

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Version History

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

Product Name : Mining Equipment Ultra Anti-Abrasion Polyurea Coating

Model No: PS600C

1.Description

PS600C is the state of the art 100% solids, ultra fast cure, flexible, spray-applied, high build, and two components aromatic pure polyurea elastomer. The product is mainly composed of an isocyanate semi-prepolymer, Poly-amine resin, and a pigment, with high strength, good performance, quick construction of a single molding without seams and other advantages. It is used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surface on mining equipment surface and other substrates.

2.Features

1. Fast cure, short down time, no sagging.
2. Excellent Physiochemical Properties.
3. Bondable and paintable to various kinds of substrates.
4. Ambient insensitive, good thermal stability.
5. 100% Solids, No VOC's, Odorless, No Toxic Vapors.
6. Good resistance to a wide range of chemical attack.
7. Excellent Abrasion resistance and Impact resistance.
8. Good weather ability, Added color stability.
9. Seamless, flexible, slick and non-porous.
10. No chalking and fading in long-term use outdoors.

3.Performance

Volume solid content	100%
Hardness (shore A)	88
Density	1.02g/cm ³
Elongation	≥350%
Tensile strength	18MPa
Impact strength	≥70N/mm
Water impermeability	0.4MPa,60min
Abrasion Resistance(GB/T 1689-1998, cm ³ /1.61km, mg)	≤0.24mg
Wear resistance (750g, 500r)	30mg
Impact resistance	1.5kg.m
Electric strength	15kv/mm
Temperature variation	-35-----+120°C
Heating temperature	55-65°C
Gel time(sec)	7-15
Tack free time(sec)	30-50
Water resistance (30d)	no rust no bubbles no peel
Acid resistance (10%H ₂ SO ₄ or 10%HCl, 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
Flash point	200°C

4. Applications

mining equipment like spiral separator, flotation cell and washing drum.

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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) Scrape putty: Apply putty to seal the trachoma and micropores on the concrete surface.
- 5) Spray polyurea: Spray with special polyurea spraying equipment and polyurea spray gun. Use cross method to repair leak spray and reduce stress.
- 6) Spraying aliphatic 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 °C in cool and dry place, avoid direct sunlight. / Nine months