

LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED

TDS (Technical Data Sheet)

P/N: Single component hand-scraping polyurea coating

Name: Single component hand-scraping polyurea coating

Customer:	N/A
Customer P/N:	N/A
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

Product Name : Single component hand-scraping polyurea coating

Model No: PS800A

1.Description

PS800A is a single component aromatic thick film polyurea anticorrosion waterproof coating material. It cures to form a thick-film membrane that provides excellent adhesive strength with concrete and steel structure, easy to apply without need of special polyurea spray machine. Because of the unique chemical structure, it is an ideal material for waterproof anticorrosion protection with high chemical resistance and waterproofing and high strength makes it most suitable for building walls waterproof, seal water of structure crack and expansion joint, anti-seepage and leak stopping of water of structure crack and expansion joint, anti-seepage and leak stopping of harbor docks and dams.

2.Features

- High solid content, low VOC
- Easy application method, use scraper to scratch the coat. Special polyurea spray machine is not needed, one hand thick film
- Excellent wearable, impact resistance, resistance to scratch
- Excellent waterproofing
- Excellent resistance to chemical media, can withstand certain concentration of acid, alkali, oil, salt and organic solvent
- Excellent adhesive strength, fast bond to the surface of steel, concrete, wood, fiberglass and other substrate.
- Wide application temperature, can be applied on -50°C~120°C
- Single component material, easy to apply that reduce the labor cost.

Application Scope : Waterproof of construction, water conservancy, transportation, chemical and power plants, such as the crack repair of highway, pavement, airport runway, leak repair of water conservancy, offshore dam and port dock repair etc.

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3. Products information

Item	Results
Appearance	Color is adjustable
Specific gravity (g/cm ³)	1.1
Viscosity (cps)@20°C	5000
Solid content (%)	≥80
surface dry time (hrs)	3
Pot life (hrs)	Within 1.5h
theoretical coverage	0.59kg/m ² (thickness 500um)

4. Physical properties

Item	Test standard	Result
Hardness (Shore A)	ASTM D-2240	88
Elongation rate (%)	ASTM D-412	310%
Tensile strength (Mpa)	ASTM D-412	20
Tear strength (KN/m)	ASTM D-624	68
Abrasion resistance (750G/500r) /mg	HG/T 3831-2006	5
Adhesive strength (Mpa) concrete base	HG/T 3831-2006	3.3
Adhesive strength (Mpa) steel base	HG/T 3831-2006	10
Impact Resistance (kg.m)	GB/T23446-2009	1.0
Density (g/cm ³)	GB/T 6750-2007	1.1

5. Chemical resistance

Acid resistance 30% H ₂ SO ₄ or 10% HCl, 30d	No rust, no bubbles, no peel off
Alkali resistance 30% NaOH, 30d	No rust, no bubbles, no peel off
Salt resistance 30g/L, 60d	No rust, no bubbles, no peel off
Salt spray resistance, 2000h	No rust, no bubbles, no peel off
Oil resistance 0# diesel, crude, 30d	No rust, no bubbles, no peel off
0# diesel, crude oil, 30d	No rust, no bubbles, no peel off

(For reference: pay attention to the influence of ventilation, splash and spillage.
Independent immersion testing is recommended if requiring detail data.)

6. Product application instructions

Environment temperature	-5℃-35℃
Relative humidity	35-85%
Dew point	when apply on metal surface, the temperature must be 3℃ higher than dew point.

7. Product application guide

Recommended application method	use scraper to scratch.
Recommended dft	500-1000um (or based on the design requirements)
Recoating interval	2-4h, if exceed 24h or have dusts on the surface, use sandpaper to blasting then apply it.

8. Curing time

Substrate temperature	Surface dry time	Foot traffic	Solid cure
+10℃	4h	24h	7d
+20℃	1.5h	8h	6d
+30℃	1h	6h	5d

9.Shelf Life

From the manufacturer date and on the original package sealed condition: 12 months

storage temperature: +5-35 °C

Packing: 4kg/barrel, 20kg/barrel

Store in cool and ventilated place, avoid direct sunshine exposure.

10.Product health and safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

11.Integrity declaration

Gguarantee all technical data stated in this sheet are based on laboratory tests. Actual testing methods may vary due to different circumstances. Therefore please test and verify its applicability. Does not take any other responsibilities except the product quality and reserve the right of any modifications on the listed data without prior notice.