

LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED

TDS (Technical Data Sheet)

P/N: two-component cathodic disbonding metal
special polyurea primer

Customer: N/A
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Customer Desc: N/A

Drafted By: Kit ZENG
Approved By: Sha LIU

Version History

Rev.	Status	Revision Description	Author/Approved	Date
A	Approved	Initial Release	Sha LIU	2017-01-18

Product Name: two-component cathodic disbonding metal special polyurea primer

Model No: DS302

DS302 two-component cathodic disbonding metal special polyurea primer takes polyurea polyurethane resin and polymers as main material, refined with special formulation and scientific production process. The coating film is dense, tough, with high infiltration and shielding performance, excellent cathodic disbonding performance and anti-rust, anticorrosion waterproof properties. The coating film has high adhesive strength with metal substrate and be compatible with the following coating film.

Product features and advantages

- * greatly increase the adhesive strength with metal substrate
- * excellent anticorrosion and wear resistance
- * excellent cathodic disbonding resistance
- * excellent waterproof & moisture resistance
- * stable resistance to temperature change
- * compatible with the following coating film
- * avoid rust and corrosion and increase the service life
- * high coverage rate to save cost

Application scope

Anticorrosion coating for any metal structures, stainless steel, aluminum surface. Low surface treatment with rust on metal structure.

Product information

Item	A component	B component
Appearance	light yellow liquid	color adjustable
Specific gravity	1.03	1.17
Viscosity (cps)@25°C	210	380
Solid content (%)	>65%	>65%
Mix ratio (by weight)	1	1
Surface dry time (h)	1-3h	
Recoating interval (h)	Min 3 h; max 24h (20°C)	
Theoretical coverage (DFT)	0.12kg/m ² film thickness 50μm	

Typical physical properties

Item	Test standard	Results
Tensile strength (dry metal surface) Mpa	ASTM D-3359	11.5
Impact resistance (kg.cm)	GB/T 1732	60
Abrasion resistance (750g/500r) mg	GB/T 1732	11
Temperature variation resistance (-40+180°C) 24h	GB/9278-1988	Normal
Cathodic disbonding resistance [1.5v,(65±5)°C, 48h]	HG/T 3831-2006	≤15mm
Density g/cm ³	GB/T 6750-2007	1.08

Chemical resistance

Acid resistance 50%H ₂ SO ₄ or 15%HCl,30d	no rust, no bubbles, no peel off
Alkali resistance 50%NaOH, 30d	no rust, no bubbles, no peel off
Salt resistance 60g/L, 30d	no rust, no bubbles, no peel off
Salt spray resistance 1000h	no rust, no bubbles, no peel off
Oil resistance, 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 requires other specific data)	

Application environment

Environment temperature: -5 ~+ 35℃

Relative humidity: RH%:35-85%

Dew point: ≥3℃

Application guide

Recommend dft: 30-50μm

Recoating interval time: 3-24h

Recommended coating method: brush, roller, airless spray, air spray

Application note

The metal structure should be sand-blasted to Sa2.5 of ISO8501-1 or GB8923. If there is no grinding machine, clean up the rust, use wire wheel or sand paper to grind the surface to St2 of ISO8501-1 or GB8923 standard.

This product can be applied on the temperature under -10℃. When apply on the very low temperature, put the material drums in the air-conditioning room for more than 24h.

HUISINS recommends to agitate the coating uniformly prior to application, use up the mixed materials within 1 hour. Don't pour the rest liquid to the original bucket.

The viscosity of product is set up in the factory, thinner shall not be random added by the applicators. Call the manufacturer for instructions to add special thinner if the viscosity changed with the application environment and humidity.

Curing time

Substrate temperature	Surface dry time	Foot traffic	Solid cure time
+10℃	3h	24h	7d
+20℃	2h	12h	7d
+30℃	1h	8h	7d

Shelf Life

storage temperature: 5℃-35℃

shelf life (from the date of production and in sealed condition):

Part A: 12 months

Part B: 12 months

store in cool and ventilated place, avoid direct sunshine, keep away from heat

package: part A: 25kg/bucket, part B:25kg/bucket

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.

Integrity declaration

Huisins guarantees 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. Huisins does not take any other responsibilities except the product quality and reserve the right of any modifications on the listed data without prior notice.