

LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED**TDS (Technical Data Sheet)**

P/N: two-component sealing penetration concrete
special polyurea primer

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	2017-01-18

Product Name: two-component sealing penetration concrete special polyurea primer

Model No: DS303

DS303 two-component sealing penetration concrete special polyurea primer takes high performance polyurethane resin pre polymer and high polymer as main film material. It has high fluidity and strong penetration into the substrate, seal the pinholes of concrete and has high adhesive strength. The coating film is eco friendly, it can greatly increase the adhesive strength when apply on concrete or other surface.

Product features and advantages

- * greatly increase the adhesive strength of concrete substrate and coatings
- * low viscosity, high fluidity
- * excellent sealing and penetration property
- * excellent anticorrosion property
- * excellent waterproof moisture resistance
- * stable resistance to temperature change
- * compatible with the following coating film
- * avoid bubbles and increase the service life
- * high coverage rate to save cost

Application scope

Substrate surface anticorrosion coating for concrete, marble, ceramic tiles and wood.

Product information

Item	A component	B component
Appearance	light yellow liquid	Color adjustable
Specific gravity	1.02	1.05
Viscosity (cps)@25℃	220	260
Solid content (%)	>60%	>60%
Mix ratio (by weight)	3	2
Surface dry time (h)	1-3 h	
Recoating interval (h)	Min 3 h; max 24h (20℃)	
Theoretical coverage (DFT)	0.09kg/m ² film thickness 50μm	

Typical physical properties

Item	Test standard	Results
Adhesive strength (dry concrete surface) Mpa	ASTM D-3359	3.5
Impact resistance (kg.cm)	GB/T 1732	60
Abrasion resistance (750g/500r) mg	GB/T 1732	11
Temperature variation (-40+180℃) 24h	GB/9278-1988	Normal
Density g/cm ³	GB/T 6750-2007	1.02

Chemical resistance

Acid resistance 40%H ₂ SO ₄ or 10%HCl,30d	no rust, no bubbles, no peel off
Alkali resistance 50%NaOH, 30d	no rust, no bubbles, no peel off
Salt resistance 50g/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: 20-40μm

Recoating interval time: 3-24h

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

Application note

The concrete surface must be completely dry, clean, compact, with no grease or stains, if there has some obvious cracks and breaking area, it should be fixed in advance. Make sure to clean up the surface with air grinding or vacuum method prior to apply **DS303**.

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.

Product 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℃-32℃

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.

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