

LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED**TDS (Technical Data Sheet)****P/N:** polyurea special hole-sealing putty

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: polyurea special hole-sealing putty

Model No: DS101

DS101 Polyurea Special Hole-Sealing Putty is a high-performance, two-component, polyurethane-modified paste formulated with advanced polymer technology. It is specifically engineered for sealing and filling holes, cracks, and surface defects in harsh environments, making it particularly ideal for substrate preparation in polyurea coating systems. This product not only inherits the excellent physical properties of polyurea but is also optimized for enhanced application and adaptability. It serves as the critical, premier choice for ensuring the integrity and long-term durability of the entire protective coating system.

Product features and advantages

- (1) The coating is seamless, tough and compact
- (2) Strong adhesion, excellent impact resistance, collision resistance and wear resistance
- (3) Excellent anti-corrosion and chemical resistance, such as acid, alkali, salt, etc

Application scope

It is suitable for leveling, joint filling and hole sealing of metal base, concrete and cement mortar plastering.

Products information

Item	Result
Appearance	Flat and bubble free
Mixing ratio	A:B=1:1, liquid: quartz sand=1:1-2
Solid content (%)	≥90(liquid, no quartz sand added)
Tack-Free Time (h)	≤3
Pot life (h)	1
Solid dry time (h)	≤12
Theoretical coverage(dft)	0.7kg/m ² (thickness 1000 um)

Physical properties

Item	Test standard	Result
Impact resistance (kg.m)	GB/T23446-2009	0.5
Adhesive strength (MPa) concrete base	HG/T 3831-2006	≥4MPa
Adhesive strength (MPa) Steel base	HG/T 3831-2006	≥8MPa
Salt water resistance, 360h	No rust, no bubbles, no peel off	
Acid resistance (5% H ₂ SO ₄ , 168h)	No rust, no bubbles, no peel off	
Temperature variation resistance(-40-+120℃)	Unchanged	

Product application temperature

Environment temperature: 5-38℃

Relative humidity: 35-85%

The concrete surface should be PH<10, the substrate water content less than 10%

Dew point ≥3℃

Application tips

Recommended dft: 1000 um

Interval time: min 3h, max 168h, if the maximum interval time is exceeded or there is dust on the surface, it is recommended to use sandpaper to polish and clean before application.

Coating method: scraping

Application note

To ensure the surface is perfect and clean, remove the oil, mold, dust and other attached dirt on the surface, also remove the loose part to make sure it is solid and dry.



Mix the paint evenly before use, pour out the amount to use up, and close the lid immediately. The mixed paint must be used up within 60 minutes. Do not return the remaining products to the original paint barrel.

Mix part A and part B in right ratio, then mix with quartz sand or quartz powder together for use.

Do not add organic solvents or other coatings.

Curing time

Substrate temperature	Surface dry time	Foot traffic	Solid dry
+10℃	6h	24h	7d
+20℃	4h	12h	7d
+30℃	2h	6h	7d

Shelf Life

storage temperature: 5℃-32℃

shelf life: 12 months (sealed)

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

package: 20kg/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.