

LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED**TDS (Technical Data Sheet)****P/N:** One component polyurea sealant

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: One-component polyurea sealant

Model No: DS200

DS200 one-component polyurea sealant is a moisture-curing polymer single-liquid type product with a new type of silane-sealed polyether as the main resin, which reacts with moisture in the air to generate a rubber-like elastomer to achieve the potting effect. Because of its high solid content, non-foaming, high bonding and hydrophilic reaction characteristics, the sealing effect of the product is better than ordinary similar products. At the same time, the product's low modulus and high elasticity make it effective in solving the leakage problems that occur in structures such as deformation joints, expansion joints and junction joints.

Product features and advantages

- * Good durability, aging resistance, blister resistance, low temperature resistance, high temperature resistance .
- * Curable in water.
- * Certain strength and excellent elasticity, can be well adapted to deformation.
- * Dense internal structure of cured which can effectively waterproofing.
- * No air bubbles during moisture-curing.
- * The curing is not sensitive to temperature, high temperature and low temperature can be cured.
- * Single-component material, simple and easy to apply.
- * Solvent-free products, odorless, no VOCs.

Application scope

Waterproofing and leakage reinforcement of roads, bridges and coal mines, waterproofing and sealing of expansion joints in buildings, and waterproofing and sealing of deformation joints and settlement joints in other buildings.

Products information

Item	Results
Appearance	White
Specific gravity	1.1
viscosity (cps) @25℃	11000±1000
Solid content (%)	98±2
Surface dry time (min)	30 (25℃)
Re-coat time (h)	Min 6h; max 24h (25℃)

Typical physical properties

Item	Test standard	Results
Hardness (shore A)	GB/T 22446-2009	55
Tensile strength, MPa	GB/T 528-2009	1.5
100% tensile modulus	GB/T 528-2009	0.6
300% tensile modulus	GB/T 528-2009	1.0
Elongation rate %	GB/T 528-2009	400%
Adhesive strength (concrete base) MPa	GB/T 22446-2009	1.3 (or substrate broken)

Application tools and application instructions

Hand scraper or pouring (loose concrete surface should be pre-treated and strengthened)

Application environment

Ambient temperature:-5~+40℃.

Relative humidity:≤90%

Dew point:≥3℃

Surface Pre-treatment

Metal surface: It is recommended to remove rust by sand blasting to reach Sa2.5 grade of ISO8501-1 or GB8923 standard.

Concrete Surface: It should be solid, dense, flat, clean and dry. There should be no sanding, crusting, cracks, honeycomb surface and other phenomena.

Please consult HUISINS technical personnel for application treatment of other materials.

Application note

1. This product can be used at a low temperature of -10°C. If used in a low temperature environment, it is recommended to place the paint bucket in an air-conditioned room at a high temperature for more than 24 hours.
2. It is recommended to pour out as much as you can use up at one time, and seal the lid of the bucket in time, and the liquid shall not be poured back into the original bucket after use.
3. When filling the gap, you can pour the material into a triangular plastic bag and tie it tightly. Apply on the sharp corners of the plastic bag to cut holes of 6-15mm in diameter, along the gap extrusion apply the material into the gap.
4. If the application thickness is thick, it is recommended to apply 2 layer. Each application interval is in 6-30 hours.

Curing time

Substrate temperature	Surface dry	Solid dry	Fully cured
+10°C	40min	24h	7d
+20°C	30min	15h	7d
+30°C	20min	10h	7d

Note: Curing times will vary depending on environmental conditions, especially temperature and relative humidity.

Packaging and shelf life

Packing specification 5kg/barrel; 10kg/barrel

Storage temperature: 5°C-35°C

Shelf life: 6 months from the date of production and unopened state (ensure that the product packaging is sealed).

Store in a cool, ventilated environment, avoid direct sunlight.

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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