

Technical Data Sheet

1. Description

SPU-THIX anti-flow single-component polyurethane waterproof coating is made of isocyanate, polyether polyol as the main raw materials, rheological additives and pigment fillers by polymerization in advanced process equipment. When used, it is coated with a waterproof base, which reacts with the moisture in the air to form a continuous, jointless film waterproof layer with rubber characteristics on the surface of the waterproof base. It is especially suitable for the waterproof construction of vertical parts such as the side wall of the basement, and has better anti-hanging performance than the ordinary polyurethane waterproof coating.

2. Characters & Packing

| Item | Data |
|--------------|----------------|
| Nature | One component |
| Color | Black |
| Appearance | Liquid |
| Density | 1.50-1.60 kg/L |
| Pot life | 4h |
| Package | Metal drum |
| Packing Size | 25 kg per drum |

3. Technical Information

Meet the requirements of GB/T 19250-2013 standard for type I.

| Items | Technical index | Typical values |
|--------------------------------|------------------------------|------------------------------|
| Solid content | $\geq 85\%$ | 92.5% |
| Surface drying time | ≤ 12 h | 4 h |
| Hard drying time | ≤ 24 h | 8 h |
| Tensile strength | $\geq 2.00\text{MPa}$ | 2.60 MPa |
| Elongation at break | $\geq 500\%$ | 850% |
| Tear strength | ≥ 15 N/mm | 17 N/mm |
| Flexibility at low temperature | -35℃, No crack | -35℃, No crack |
| Water tightness | 0.3MPa , 120min, impermeable | 0.3MPa , 120min, impermeable |
| Adhesion strength | $\geq 1.0\text{MPa}$ | 1.5MPa |

4. Area of Application

Underground works, toilet bath room, kitchen, balcony, pool, parking lot, non-exposed roof and other non-exposed waterproof works; Especially suitable for underground engineering side wall, slope roof and other slope, easy to flow hanging non-exposed waterproof projects.

5. Features & Benefits

Single component: Ready to use, easy to use.

Easy construction: The construction viscosity is similar to that of ordinary single-component polyurethane waterproof coating, and the rolling coating method can be used under normal temperature conditions.

Good anti-flow hanging performance: single construction 0.8-1mm no flow hanging.

Excellent physical and mechanical properties: good elasticity, high tensile strength, strong resistance to base deformation (shrinkage and cracking).

Excellent water and corrosion resistance: chemical reaction cross-linked film, water erosion resistance, corrosion resistance, mildew resistance.

Excellent low temperature flexibility: low temperature -35℃ bending without cracks, suitable for low temperature waterproof projects.

Environmental protection: The use of high boiling point solvents, do not add benzene, toluene, xylene and other toxic solvents, no coal tar components.

6. Method of Application

Recommended dosage

When waterproof layer thickness is 1.0mm, the dosage is about 1.6 kg/m²-1.7kg/m²

Construction technology

Substrate treatment → detailed additional waterproof layer construction → large surface coating waterproof layer construction → Receiving and edge sealing → quality inspection acceptance → protective isolation layer construction

Construction Points

- Substrate treatment: waterproof substrate should be smooth, solid, dry, no sharp convex, honeycomb, pockmarked and peeling, no oil. Cracks, base deformation joints, grooves left at the root of the pipe should be filled with sealing materials and additional waterproof treatment, smooth and solid base without brushing base treatment agent.
- Details additional waterproof layer: Yin and Yang corners, pipe roots, deformation joints and other basic details of the node, should be carried out additional waterproof layer construction, can be added 2-4 times (thickness is not less than 1mm), if you need to lay the body reinforcement material must be soaked, deformation joints should be first laid a layer of polyester non-woven fabric, and then coated paint, the formation of additional waterproof layer empty structure.
- Large surface coating waterproof layer construction: It is recommended to use plastic scraper evenly scraping, the upper layer of coating film can be carried out after the strength of the next construction, the general interval time 12-24h (low temperature will be extended accordingly). If the roller coating method is used, it is recommended to use medium or short wool rollers to reduce the phenomenon of hair drawing.
- Because the fluidity of the product is reduced compared with the ordinary polyurethane waterproof coating, it

must be rolled evenly to reduce the uneven thickness. In the construction of large slope parts (such as side walls), it is recommended to apply 15-18m² per barrel, that is, the wet film thickness of 0.8-1mm, more than this thickness, there may be flow hanging phenomenon.

- Head and edge seal: apply coating to seal.
- Protective isolation layer construction: After the coating waterproof layer is accepted, the protective isolation layer construction can be carried out according to the relevant specifications or design requirements.

7. Transportation & Storage

During transportation and storage, avoid sun and rain, stay away from fire and heat sources, prevent collisions, and pay attention to ventilation. Storage temperature is 5°C-40°C.

Under normal transportation and storage conditions, the shelf life is 6 months.

8. Precautions & Limitations

The base should be dry and flat, and if the base is porous, it needs to be polished or closed.

Construction temperature 5°C-35°C, rain and snow environment shall not be constructed.

Construction should be carried out under the condition of good ventilation, and the construction personnel should take corresponding safety protection measures.

It is forbidden to add diluent during construction. If you have any questions, please contact our technical service personnel.

This product shall not be directly applied to domestic water supply equipment (including but not limited to transmission and distribution pipes, equipment, mechanical parts, etc.).

Please follow the instructions provided by Oriental Yuhong for construction. For more information, please read the product safety manual before construction.

9. Quality, Health & Safety

Please read the safety manual carefully, our security experts will be pleased to give you advises about safety, health and environmental issues.

10. Product Responsibility

The above information and recommendations which are based on our experience are as for reference, they can't replace the customers' own experimental results. Since our company, our representatives or distributors can't control the transportation, storage, handling and use conditions of the products, the economic disputes and the quality accident caused by improper use can't be attributed to our suggest. When using the product, the user shall be deemed to have read and fully understood the full contents of the instructions. The manufacturer and seller shall not be liable for any violation of the instructions.

In any application, the customer shall be responsible comply with obligations of third-party intellectual property rights. Without our consent, anyone shall not provide technical information to third parties.

11. Other Information

Company name: Beijing Oriental Yuhong Waterproof Technology Co., Ltd

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