

VX Guardian PU Pureseal 1K exposed single-component polyurethane waterproof coating is prepared by polymerization with aliphatic isocyanate, polyether polyol as main raw materials, special additives, inorganic fillers, pigments and a small amount of solvents. When used, it is coated on the base. By reacting with the moisture in the air, a continuous, joint less film waterproof layer with rubber characteristics can be formed on the surface of the substrate.

### TECHNICAL INFORMATION

Items	Technical index	Typical values
Solid content	≥ 85%	95%
Surface drying time	≤ 12 h	10 h
Hard drying time	≤ 24 h	20 h
Tensile strength	≥ 2.00MPa	3.5MPa
Elongation at break	≥ 500%	550%
Tear strength	≥ 15 N/mm	19 N/mm
Flexibility at low temperature	-35°C, No crack	-35°C, No crack
Water tightness	0.3MPa ,120min ,impermeable	0.3MPa ,120min ,impermeable
Adhesion strength	≥ 1.0MPa	1.8 MPa
Artificial weathering aging	1000h	Passed

*Note: All the above data are tested in the standard test conditions (temperature of 23 °C + 2 °C, relative humidity of 50% plus or minus 10%).*



### AREA OF APPLICATION

It is suitable for waterproof in exposed position of construction engineering, such as roof etc.

### CHARACTERS & PACKING

Item	Data
Nature	One component
Appearance	Liquid
Color	Light gray/ Dark grey / Rose red
Density	1.45±0.5 kg/L
Package	Metal drum
Packing Size	25 kg per drum

### FEATURES & BENEFITS

- Based on aliphatic isocyanate synthesis, good weather resistance, can be exposed for a long time;
- Safety and environmental protection, no coal tar components, no benzene, toluene and xylene;
- One-component moisture curing, ready to use, convenient construction;
- High strength, good elasticity, strong adaptability to base shrinkage and cracking deformation;
- Chemical reaction film, with excellent water resistance, corrosion resistance, mold resistance;
- Excellent low temperature flexibility, -35 °C low temperature bending without cracks.



## METHOD of APPLICATION

### Recommended dosage

When waterproof layer thickness is 1.0mm, the dosage is about 1.4-1.6kg/m<sup>2</sup>

### Construction Points

#### Construction technology

Substrate treatment → detailed additional waterproof layer construction → large surface coating waterproof layer construction → receiving and edge sealing → inspection acceptance

#### Construction Points

Substrate treatment: The substrate should be flat, solid, dry, no sharp convex, honeycomb, pitted and peeling, no pollution, and free from dust and dirt. It is recommended to use special primary treatment agent while the surface is porous or it is in the high temperature and high humidity or exposure environment construction. Additional layers: Make the additional layers in detail node like deformation joint, water outlet, concave and convex corners. Pre-install reinforcement materials and then brush these places for 2-4 times until thoroughly penetrating into it. Keep no folds and edge warp.

Use rubber or metal scraper to brush evenly and brush 2-3 times. The first time should apply a thin coating film to seal the base surface's pinholes, then carry out the next coating when the previous coating is dry, normally need 12h, in low temperature shall extend the dry time, and the brushing direction should be vertical to the previous one.

Tip and edge seal: add-coating for sealing.

## TRANSPORTATION & STORAGE

Pay attention to safety during transportation, avoid extrusion, collision, violent loading and unloading, etc., resulting in packaging damage and leakage;

Storage should be away from the fire source heat source, pay attention to ventilation and dry, avoid the sun and rain, storage temperature range of 5-25°C, the highest temperature does not exceed 40°C.

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

## **PRECAUTIONS & LIMITATIONS**

During construction, the base should be dry, the ambient temperature is 5-35°C, and it should not be constructed on rainy and snowy days.

If there is precipitation when opening the barrel for the first time, stir well before use, and the unused product should be sealed in time for use, not more than 4h; It is strictly forbidden to work in a closed environment or under poor ventilation conditions, and construction personnel should pay attention to safety protection; The construction site should be equipped with firefighting equipment, and smoking or using open fire is strictly prohibited.

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.).

## **QUALITY, HEALTH & SAFETY**

Please read the safety manual carefully, our security experts will be pleased to give you advises about safety,

## **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.