

VX Guardian PU PureSeal 500NE One Component Polyurethane Waterproof Coating is made out of the main materials of isocyanate and polyether polyol, together with various auxiliaries and fillers by polyreaction, coating on the waterproof base layer, after chemical reaction of NCO terminal group of polyurethane pre-polymer and moisture in air, it forms a

## TECHNICAL INFORMATION

| Items                          | Technical index             | Typical values              |
|--------------------------------|-----------------------------|-----------------------------|
| Solid content                  | ≥ 85%                       | 89%                         |
| Surface drying time            | ≤ 12 h                      | 5 h                         |
| Hard drying time               | ≤ 24 h                      | 7 h                         |
| Tensile strength               | ≥ 2.00MPa                   | 2.70 MPa                    |
| Elongation at break            | ≥ 500%                      | 700%                        |
| Tear strength                  | ≥ 15 N/mm                   | 20 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                    | 1.5 MPa                     |

## AREA of APPLICATION

Apply to basement (basement of building, basement parking lot, open-cut subway and passageway);  
 Waterproof engineering of washroom, kitchen, balcony, water pool, parking lot etc. ;  
 Apply to non-exposed roof waterproof engineering.

## CHARACTERS & PACKING

| Item         | Data           |
|--------------|----------------|
| Nature       | One component  |
| Appearance   | Liquid         |
| Color        | Black          |
| Density      | 1.45-1.55 kg/L |
| Pot life     | 4h             |
| Package      | Metal drum     |
| Packing Size | 25 kg per drum |

## FEATURES & BENEFITS

- **Excellent physical and mechanical properties:** Composed of pure polyurethane, good rubber elasticity and resilience, high tensile strength, strong resistance to the deformation of base layer (shrinkage and cracking);
- **Good bonding property, strong adhesion:** be bonded with different base layers and directly constructed on the qualified base layers; the bonding strength is more than 1.0MPa;
- **Good construction performance:** one component, out of the box for use on-site, easy construction; brushing 2-3 times up to 1.5mm thickness, dense coating, pin-hole-free, no bubbles;
- **Excellent water and corrosion resistance:** forming film by chemical reactions, water erosion resistance, corrosion resistance, mildew resistance, especially suitable for long-term soaking parts of waterproof engineering constructions;
- **Excellent low temperature flexibility:** -35 °C low temperature bending without cracking, suitable for low temperature waterproof engineering constructions;
- **Good construction performance:** one component, out of the box for use on-site, easy construction;
- **Environmental friendly:** high boiling point solvents, non-dangerous goods, no benzene, toluene, xylene and any other toxic solvents, no coal tar.

## METHOD of APPLICATION

When waterproof layer thickness is 1.0mm, the dosage is about 1.6 kg/m<sup>2</sup>-1.8kg/m<sup>2</sup>

### Construction Points

- **Base treatment:** The base 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.
- Scrap evenly with rubber or metal scraper, coat for 2-3 times. The first time should apply a thin coating film to seal the base surface's pinholes, we can only 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.
- After the acceptance of the waterproof layer of the coating film, the protective isolation layer can be carried out according to the relevant specifications or design requirements.

## TRANSPORTATION & STORAGE

During transportation and storage, please prevent sunlight or rain, keep away from fire, and avoid collision, kept in ventilated place. The best storage temperature is 5°C-25°C, the temperature is not allowed to be over 35°C. The quality guarantee period is 6 months under normal transport and storage conditions.



### PRECAUTIONS & LIMITATIONS

- Construction temperature is about 5°C-35°C, and construction is forbidden in rainy or snowy days.
- Stir the product evenly before using.
- The product is open-use. The remaining should be sealed in a timely manner and the open time should not exceed 4h.
- Diluents or other additives are strictly prohibited during construction without the written permission of the manufacturer.
- The product shall not be directly painted on the domestic water supply and distribution equipment (water supply pipes, equipment, mechanical parts, etc. included).
- Construction should be carried out under ventilated condition; construction workers should have related safety protection measures.

### 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.

