



VX Guardian PU PureSeal UV system used in exposed application where resistance to ultra violet radiation is critical, it includes two component primer, one component polyurethane liquid membrane. The system can be exposed to sunlight and subject to foot traffic, or under the cement sand screed. The finished membrane is a seamless, self-smoothing, non-toxic and colorful layer.

## PRODUCT FEATURES

- Seamless, conforms easily to complex details and irregular surface profiles
- High adhesion and tensile stress, prevents the lateral migration of water along concrete surface
- Non-toxic, good elongation and elasticity
- Structural crack bridging capability
- Protect substrate, cement and or iron, high aging property
- Color chose for membrane and top coating
- Irreversible chemical cure does not permit melting or flow of film at elevated ambient temperatures

## WHERE TO USE

- Inverted Roofs
- Concrete & Steel Bridge Decking
- Lagoon & Theme Park
- Planter Boxes, Basements
- Concrete Reservoirs
- Roof Renovation
- Roof Garden
- Swimming Pool
- Cladding Roofs

Disclaimer. The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual size conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and all risks and liability in connection therewith. The information contained in the brochure may change at any time without notice.

## METHOD of APPLICATION

**Construction process:** Preparation before construction → substrate cleaning → primer coat → detailing reinforcement → coating in large areas (coating scraping should reach the designed requirement) → Inspection

**Substrate requirements:** The substrate should be dry, clean, flat, solid and defects should be repaired first

### Primer coating:

- Apply the Primer by cloth roller or short hair brush
- If raining, when apply primer, stop and let surface dry up
- After apply primer, let it dry over 90 minutes, and then apply liquid waterproofing membrane. If priming stay over 12 hours, apply primer again.

**Partial reinforcement:** The internal and external corner should be made into arc or obtuse angle, set an additional coating layer at the internal and external angle and pipe bottom (built-in non-woven fabric for reinforced treatment as "one fabric three times of coating"). When brushing, make the fabric is saturated and completely covered by the coating with no fabric exposed. The thickness of the top coating should not be less than 1.0mm.

### Waterproof membrane coating:

- Pour the VX Guardian PU PureSeal UV on the primed surface, apply by toothed trowel, squeegee or roller
- Tack free time is about 2 hours at 35°C. Waterproofing membrane should be dry in 24 hours and fully cured in 3 days

## PACKAGING

VX Guardian PU PureSeal: 20Kg / pail

## SHELF LIFE & STORAGE

Do not store product exposed to weather and sun. When kept in a cool, dry and protect area, sealed pail has a 6-months shelf life.

## ATTENTION

Run it out after open, the using time is within 30 minutes. Long-term storage will cause the forming of a thin film in the surface.

Remove this when application. It will not cause ineffectiveness.

Before the coating is cured, walking above the waterproof layer is prohibited. Avoid damaging the waterproof layer by heavy and sharp objects

Keep the construction site well ventilated. The operator should wear protective equipment such as safety helmet, gloves and working shoes in case of the skin and eyes irritation. The site should keep away from the fire source.

Apply protective layer after checking and accepting the coating.

Application under snowy and rainy days, sandy days, and low temperature as well as on the substrate which do not meet the requirements are prohibited.

## TECHNICAL DATA

NO	Item	Standard	Requirement	Index
1	Solid content/%	JC/T 2253-2014 7.5	≥60	75
2	Touch dry time/h	JC/T 2253-2014 7.7	≤4	2
3	Hard dry time/h	JC/T 2253-2014 7.8	≤24	4
4	Tensile strength/MPa	JC/T 2253-2014 7.9	≥4.0	9
5	Elongatin at break/%		≥200	500%
6	Low temperature bending	GB/T 16777-2008 14.2.1	No cracking at -30°C	No cracking
7	Abrasion resistance (750g/500r)/mg	JC/T 2253-2014 7.11	≤40	3
8	Impact resistance, kg ·m	JC/T 2253-2014 7.12	≥1.0	1.1, no failure
9	UV aging, 1500h	JC/T 2253—2014 7.15	1500h	1500h
10	Low-temperature flexure	JC/T 2253—2014 7.15	-30°C, no cracks	Pass
11	Adhesion to concrete, MPa	JC/T 2253—2014 7.13	≥2.5	2.6
12	Usage	/	/	1.9Kg/sqm/mm