

Liqubain™ WR

## WEATHERING POLYUREA TOP COATING

*Technical Data Sheet*



### ✓ DESCRIPTION

Weathering polyurea top coating is a polyaspartate polyurea coating, its film does not contain photochromic and chromogenic molecule, which can completely avoid the shortcomings that aromatic isocyanate polymer is not resistant to ultraviolet light and easy to yellowing. It is an aliphatic, slow reaction, high performance material.

### ✓ PRODUCT FEATURES

- ◆ Excellent weather resistance performance and not easy to yellowing, can expose for a long time.
- ◆ Good water resistance and good wear resistance with certain elasticity.
- ◆ The film is full of color and brilliance.
- ◆ Easy to construction.

### ✓ APPLICATIONS

It used for surface of concrete, steel structure, polyurea coating and other structures, also for the expose environment such as the landscape river course, water amusement park, building roof, etc.

### ✓ CONSTRUCTION CONDITION

- ◆ Requirement for the substrate: The concrete substrate should be cleaned, repaired and polished to a certain roughness condition. After the enough time of maintenance, the concrete strength must be C25 or above, and moisture content should be less than 6%. When the substrate is ready, the next process should be carried out as soon as possible.
- ◆ Environmental temperature and humidity requirements: The construction environment temperature is between 5~35°C, and the substrate's temperature is at least 5°C higher than the air temperature. The humidity range should be between 30~80%.
- ◆ Ventilation condition: Keep ventilation during construction, but don't construct the primer when there is strong wind.

Liqubain™ WR

## WEATHERING POLYUREA TOP COATING

Technical Data Sheet

### Performance Parameter

No.	ITEM	INDEX	TEST METHOD
1	Tack free drying time/h	≤2	GB/T 1728-1989
2	Fully drying time /h	≤24	GB/T 1728-1989
3	Wear resistance (750g, 500r) /mg	≤40	GB/T 1768-1979
4	Adhesion (concrete substrate) /MPa	≥2.5	JC/T 2252-2014
5	Water resistance (720h)	No blistering, no wrinkling, no peeling, no obvious discoloration	JC/T 2252-2014
6	Anti-artificial climate accelerated test (1500h)	No obvious color change and powder, no bubbles and cracks.	GB/T 9274-1988

#### ✓ CONSTRUCTION NOTES

- ◆ The component A and B should be stirred evenly before mixing them.
- ◆ The mixing ratio of component A and B by weight is A:B=3:1. It is ready to construct after it mixed evenly by 2~3 mins mechanically mixing,
- ◆ The mixed primer should be used up in 30min by roller or brusher or spraying. It is recommended mixing suitable quantity time by time according to the site construction. Any material is not allowed to add into the it to make it thinner.
- ◆ It can be applied layers according to the construction requirement. Normally, the next process should be carried out after the tack free time of the previous construction. If it is applied on the top of spraying polyurea coating or hand-applied polyurea coating, please apply it in 12~24 hours after the polyurea construction.

#### ✓ PROTECTION AND SECURITY

- ◆ Protective glasses, work clothes and shoes and hats are required for construction operations. During the construction, it is avoided contact with the skin, and once in contact with the skin, it is recommended to wash with warm water and detergent, if necessary, wash with a plastic brush or a steel ball. If inadvertently splashed into the eyes, need to wipe immediately and rinse with plenty of water, and go to the hospital for help.
- ◆ Normally, the fully dry coating is non-toxic and very safe.

#### ✓ RECOMMEND USAGE

About 0.15~0.3kg/㎡. The thickness of one construction is 0.15~0.25mm, and the thickness can be increased by multiple times construction. It is not allowed construct the thickness more than 0.25mm in one time.

Liqubain™ WR

**WEATHERING POLYUREA TOP COATING**

*Technical Data Sheet*

✓ **Packing**

20kg/set=Liqubain WR A:15kg/pail;  
Liqubain WR B: 5kg/pail.

✓ **STORAGE AND TRANSPORTATION**

- ◆ The coating should be sealed and stored in a dry, cool and well-ventilated condition, avoiding sun and rain and keeping away from fire.
- ◆ In the original packaging state and the prescribed storage conditions, the product has a shelf life of 6 months from the date of production.
- ◆ After open the drum, please use it as soon as possible and seal it again when not in use.
- ◆ The materials shall be stacked stationary and avoid violent collision when transporting.