



**HANCHI 汉驰**

## TECHNICAL DATA SHEET

### H-PU102 POLYURETHANE WATERPROOF COATING

-PU102 (Water-based)



H-PU102 water-based polyurethane waterproof coating, is made of isocyanate and special polyether, mixed with accessory ingredients and emulsion. This H-PU102 waterproof coating is with higher elasticity and higher strength and adhesive force to be as the waterproof membrane under tiles.

#### USES

The water based polyurethane waterproof coating can be used on the floors under tiles of basement floor, interior rooms, kitchen, bathroom, terrace, balcony, concrete roof, water tanks, swimming pool, wall etc

balcony of new and old constructions which are made by cement, bricks, slurry, metal, wood, stones and hard plastic.

#### CHARACTERS

- Singlecomponent,water-based,notincludes any solvent, no smell and harm to environment.
- After the film dries totally, the strength of membrane will be higher strength and ductility to meet the deformation and crazes on the base.
- Anti-aging, anti-low temperature.

#### PACKAGE

20kg /bucket. 16L.

#### USE AMOUNT

- 1.6kg/m<sup>2</sup>,thickness1.2mm
- Brush or roller for small projects under 500 m<sup>2</sup>
- Gasoline driven airless sprayer above 500m<sup>2</sup>.

#### PERFORMANCE

ITEMS	DATA
Appearance	Well-proportion without gel,liquid
Solid content	>85%
Density , g/cm <sup>3</sup>	>1.13
Tensile Strength	>2MPa
Elongation at break (%)	550
Bending at Low Temperature (180° around 10mm dia rod)	(-10°C ) No cracks



Heating ratio of expansion and contraction%	2%
Watertight(0.3MPa,30min)	Watertight
Surface drying time Hard	3 hrs
hard drying time @23°C	5 hrs
Bonding strength on wet substrate	1.41 Mpa
Artificial weathering aging (heat, acid, alkaline) (720h)Retention tensile Strength	>100%
Elongation tensile strength (Heat treatment)	>465%
Elongation tensile strength (Alkaline & Acid treatment)	>475%
For further details, please contact with the us	

### SUBSTRATES & APPLICATION

- Keep the substrates surface dry or wet but without dust,water,rocks,etc.
- Stir the H-PU102 evenly with a mixing rod.
- Two coats brush required. After the first coat dry then apply the second coat in a perpendicular direction with first coat.
- H-PU102 polyester fabric H-PU102s could be used to strengthen the waterproof layer.
- Proper application temperature is 5°C-40°C.
- Dry time is 24h with temperature 23°C. The lower temperature, the longer dry time.

### TEMPERATURE CONTROL

- Not suggested to apply under5°C.
- Surface dry time is 8h at 23°C.

- Storage temperature 5°C to 50°C
- Far away from objects whose temperature is higher than 80°C.

### APPLICATION REQUESTS

The H-PU102 water based polyurethane waterproof coating is one type of water based chemical, which forms waterproof layer through natural drying. Do not leave it alone opened container when off work.

Put the lid back to the container and seal tightly could help decrease its reaction speed but remember run it out of the whole opened container ASAP.

Run it out in without 24 hours to avoid the coating dry once exposed for long time.

### CLEANING

Clean the application tools with water once work finished.

### ANNOUNCEMENTS

Notice that the H-PU102 is water based product, could be frozen in the tem under 0°C!

### APPLICATION METHODS

- Substrate should be clean, flat, without dust and greasy dirt, etc.
- The obvious cracks, pin holes, joint the substrates should be repaired and Planished. Eliminate the sharp objects on the substrates.
- Wetting the substrates but no water on it.



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- Directly brush or spray the H-PU102 on the substrates in a seamless membrane without leak sources. 2 coats applications necessary . 2nd coat should be applied after the 1st coat dry.
- Keep at least 24hours dry time after application. The longer time if lower temperature.
- Closed water pond test needed to check the waterproof layer quality.

### CAUTION

- Construction to wear protective equipment (such as gloves, goggles) to avoid direct skin contact .Should be flush with water if contaminated.
- Cover and tight enough the lid after application, to prevent meeting with air for long time.
- Stored in a cool dry place to avoid rain and fire. Storage temperature is from 0 °C to 30 °C.
- The shelf life of 18 months

KEEP AWAY FROM CHILDREN !