

AQUASTOP PU-301

One Component Polyurethane Waterproofing Coating

PRODUCT DESCRIPTION

AQUASTOP PU-301 is a high-performance, 1-component moisture-curing polyurethane waterproof coating especially used for flat surfaces. When this coating is applied on surface substrate, it has chemical reaction with the moisture in the air, and form a seamless elastomeric rubber waterproof membrane.

- ▶ Good tensile strength and elongation
- ▶ Both high and low temperature resistance
- ▶ Resistance to long term water erosion
- ▶ Good corrosion and mildew resistance

DESIGN USE

As a non exposed type waterproofing coating for swimming pools, water fountains, balcony, unexposed roof, undergrounds, parking garage, kitchen and bathrooms.

PHYSICAL DATA

Solid Content	92 ± 2%
No. of Components	1
Number of Coats	2 to 3 (recommended thickness ,1mm)
Theoretical Coverage	1.7 kg/m ² @ 1mm thickness
(Note: Actual coverage varies based on substrate type, surface porosity, texture, and whether a primer is applied).	
Colour Range	Black
Hardness	48 (Shore A)
Elongation at Break	> 700% (ASTM D412)
Tensile Strength	> 3.0 MPa (ASTM D412)
Tear Strength	20 N/mm (KS F 3211)
Bond Strength (Concrete)	1.50 Mpa
Water Immersion	No blistering and peeling
Surface dry time	5 to 12 hours (depends on air humidity)
Cure time	24 Hours @ 25'C
Pot Life	3-4 hours
Standard Packing Size	20kg
Shelf-Life	12 months - Unopened

RECOMMENDED PAINTING SYSTEM

Substrate: Concrete, Cement Screed		
System	Product	No. of Coats
Primer	Not necessary	NA
Waterproofing	AQUASTOP PU-301	2 to 3
Protection layer	Cement sand screed / Recommended KCC top coating	1 to 2

(for maximum protection, apply 2nd coat at 90 degree angle to the 1st coat.)

AQUASTOP PU-301

APPLICATION METHOD

Scraper or spray application. Brush or Roller can be used for edges and joints.
* Stir the contents thoroughly before use. Thinning is not necessary.

Clean up equipment with cleaning solvent immediately after use.

ADDITIONAL INFORMATION

Thinner	(usually thinning is not necessary)
Thinning Ratio	NA
Cleaning Solvent	Thinner T70
Flash Point	Non-Flammable
Storage Requirements	Cool, dry and well ventilated area away from heat and direct sunlight(5 ~ 35°C). Lid must be kept tightly closed

SURFACE PREPARATION

New Masonry Substrates

Surfaces should be dry, stable, clean, smooth, without pockmarks or honeycombs and free from any dusts, oil or loose particles. Cracks and surface irregularities need to be filled by sealants and do additional waterproofing.
For smooth and stable surfaces, this step can be skipped.

Previously Painted Surfaces

- ▶ If fungus, algae, and moss is present, treat with "KCC Fungidal Solution"
- ▶ Make good minor defects with an appropriate suitable exterior putty sealant.
- ▶ For overcoating over old coatings, a high pressure water jet cleaning should be performed to remove all loose or defective paintwork or powdery residues.

Application conditions

- ▶ Ensure the surface is completely clean and dry.
- ▶ Ensure the relative humidity below 80% before painting.
- ▶ Ensure the surface temperature in the range 5 to 35°C during application.

Application INSTRUCTION

Application

- ▶ It can use rubber scrapers or spray equipments to paint 2 or 3 times. After fully dry, it can be overcoated again. The normal time between each painting is 24 hour.
- ▶ The direction of second time painting needs to be perpendicular to the first time painting.
- ▶ Paint Aquastop PU-301 as additional layer to enhance waterproofing protection at internal and external corners, drain pipes, floor drains or embedded parts.
- ▶ After Aquastop PU-301 has fully dried (>24hrs) and meets application requirement, a protective top coating / cement screed can be applied.

Product Limitation

- ▶ Once opened, the product should be consumed immediately, do not store it.
- ▶ Addition of diluents, solvents, are prohibited during application without written permission from the manufacturer.
- ▶ Do not apply the product on domestic water supply tanks and equipments.

AQUASTOP PU-301

REMARKS

- ▶ Always conduct an application point test on small area. Check for any abnormalities and paint defects prior to painting.
- ▶ Always follow TDS recommended coating thickness and ensure uniform application thickness. Inconsistent film thickness will result in difference in sheen level and unpleasant finishing.
- ▶ Recommended to paint according to TDS and Application guide.
(Please consult with KCC customer service for any inquiries or browse to our website www.kccpaint.com.my)

SAFETY PRECAUTIONS

- ▶ Ensure adequate ventilation during application and drying.
- ▶ Avoid contact with eyes and skin.
- ▶ In case of contact with skin, wash immediately with plenty of soap and water.
- ▶ Keep out of reach of children.

HANDLING PRECAUTIONS

- ▶ This product should be stored in its original container in a shaded, cool, and well-ventilated warehouse.
- ▶ The recommended storage temperature is 15-35°C.
- ▶ Protect the product from rain, sunlight, UV rays, flames, and heat.
- ▶ Proper care must be taken during transportation. Failure to follow these storage guidelines may lead to premature deterioration and a reduced shelf life.
- ▶ When reopening the product for reuse, remove any formed skin and stir thoroughly before using.

FIRST AID

Eyes	Rinse immediately with plenty of water and seek medical advice.
Skin	Wash immediately with plenty of soap and water.
Inhalation	Remove to fresh air, loosen collar and keep patient rested.
Ingestion	Do not induce vomiting. Seek medical attention.

DISCLAIMER

The above information is given to the best of our knowledge based on laboratory testing and practical experiences. The information in this data sheet may be subject to changes from time to time and without notice due to production refinements arising from continuing research and evaluation programmes which may occasionally result in marginal changes in the coating properties.

REVISION DATE REVISION NO.

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