

SPU-301 H

Horizontal-applied One Component Polyurethane Waterproof Coating

Description

SPU-301H is a one component moisture-curing polyurethane waterproof coating especially used for horizontal applications. When the coating is applied on, it cures with the air moisture to form a seamless elastomeric rubber waterproof membrane.

Where to use

- Undergrounds;
- Parking garages;
- Terraces
- Subways in open cut method;
- Channels;
- Kitchen or bathroom;
- Unexposed terraces and balconies
- Swimming pools, man-made fountain and other pools;

Advantages

Good tensile strength and elongation;
Both high and low temperature resistance;
Strong adhesive;
Seamless, no pinholes and bubbles;
Resistance to long-term water erosion;
Corrosion-resisting and mould-resisting;
Convenient to apply.

Standards

ASTM C 836

Typical Properties

Item	Test Method	Requirement
Hardness	ASTM D 2240	≥50
Weight loss	ASTM C 1250	≤%20
Low temperature crack bridging	ASTM C 1305	No cracks
Film thickness (vertical)	ASTM C 836	1.5mm ± 0.1mm
Peel adhesion after water immersion	ASTM C 794	175 N/m
Optional test after adhesion in peel	ASTM C 836	No separation
Extensibility after heat ageing	ASTM C 1522	6.4mm no cracks
Stability	ASTM C 836	≥ 6 ay

Application System

Constructive System

The system is basically consisted of substrate, additional layer, waterproof coated membrane and protection layer.

Application Method

Surface preparation

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.

Additional layer

Paint SPU-301H as additional layer to enhance at internal and external corners, drain pipes, floor drains or embedded parts.

Application of waterproof coated membrane

Rubber scrapers or spray equipments can be used to paint 2 or 3 times. After fully dry, painting can be repeated. The normal time between each layer is 24 hour. The direction of application layers should be perpendicular to the previous one.

Application of protection layer

After waterproof coated membrane is fully cured and meets the quality requirements, the application of protection layer could be started

Coverage

1.7kg per m² gives dft 1mm dry film thickness. Consumption may vary with the substrate condition.

Packaging

SPU-301H is sealed in 20kg or 22.5kg pails and transported in wooden cases. Each wooden case contains 36 pails of SPU-301H.

Storage and Transportation

SPU-301H material should be stored by sealed pails at dry, well-ventilated places and should be protected from direct sun or rain. The temperature in stored places should not exceed 40° C. Avoid from fire sources. SPU-301H is needed to be avoided direct sunshine and rain. Fire sources should be avoided during transportation.

Notice

The application temperature of SPU-301H should be above 5⁰C.

SPU-301H should be consumed instantly and can not be diluted with solvent.