



# GES-309

## Anti-UV Aliphatic Single Component Polyurethane Waterproofing Membrane

### Product Description

GES-309 is an anti-UV exposed grade one component moisture-triggered pure polyurethane waterproof coating developed based on aliphatic isocyanate. The product is polymerized by aliphatic isocyanate, polyether polyol, special additives, fillers, pigments and a small amount of solvents. It can be applied directly onto concrete, clay, metal and pitch roofs including new and refurbishment of old roofs.

### Recommended Dosage

- A dry film thickness of 1.0mm is recommended.
- The consumption rate to achieve 1.0mm is approximately 1.3 kg/m<sup>2</sup> –1.5kg/m<sup>2</sup>.

### Product Information

Description	Test Method	Typical values
Packing Size	-	20 or 25 kg per drum
Tensile Strength	ASTM 412	4.52 MPa
Elongation at Break	ASTM 412	1091%
Hardness (Shore A)	ASTM D2240-15	71
Pull-Off Strength to Concrete Substrate	ASTM D7234-21	2.47 Mpa
Water Vapour Transmission	ASTM E96/E96M-22	0.59 g/(m <sup>2</sup> .hr)
Crack Bridging @ 6mm	ASTM C836	No Cracks
Resistance to Water Penetration (5 Bar for 72 hrs)	DIN 1048 Pt 5	(No penetration of water was observed)

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### Special Features

- Single Component, Seamless and can be Applied Directly with or without primer.
- Aliphatic Polyurethane Polymer that has Good Weather & Permanent UV Resistance.
- High Solid Content – Consistent Application over Uneven Substrates.
- Excellent Physical Properties including High Tensile Strength, Elongation & Crack Bridging Ability.
- Excellent Bond Strength on Most Substrates even Without Priming.
- Excellent Water Resistance, Corrosion Resistance & Mildew Resistance (Esp. Waterproofing Ponding Areas).
- No Benzene, Toluene & Xylene and No Coal Tar.
- Low VOC & Odour.
- Safe & Environmental Friendly.
- Root Resistant.

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### Substrate Preparation

- The substrate shall be solid, firm, dry and free from laitance, dust and dirt. All loose concrete shall be removed.
- Cracks and honeycomb shall be repaired prior waterproofing application.
- Apply primer before applying GES-309 if the substrate is porous or the application environment is subject to high humidity.
- For critical areas such as construction joints, pipes penetration or the interfacing between two different substrate materials, apply reinforcement mesh in between coats.
- Apply the first coat of GES-309 in one direction and the second coat in alternate direction. Allow the first coat to dry 4-6 hours before applying the second coat. Allow the second coat to cure for 24 hours before carrying out any water ponding test.

### Health & Safety / Limitations / Storage

- Read the product Safety Data Sheet before using it.
- Do not apply GES-309 on substrate with rising moisture.
- Do not dilute GES-309 with any solvents.
- The material must be stored in original and unopened packaging. It must be stored in dry conditions at temperature between 5°C to 35°C .