



# PU Elastobond 101

UV-resistant, High Elastic  
polyurethane waterproof membrane

Pack Size

Bucket -23Kgs, 20Kgs & 10Kgs.

TDS  
Technical Data Sheet



## Product Description

PU Elastobond 101 is a single-component, high-quality polyurethane coating that cures by reacting with atmospheric humidity to form a robust elastic film. It offers excellent adhesion to various substrates, including dry concrete, fibrous cement, ceramic tiles, wood, and galvanized steel when used with Aquathane Primer Range. This product is based on pure elastomeric hydrophobic polyurethane resin with special inorganic filler, providing superior weathering resistance.

## Applications

PU Elastobond 101 is suitable for waterproofing and protecting:

- Roofs
- Light roofing made of metal or fibrous cement
- Bathrooms
- Gypsum and cement boards
- Polyurethane insulation foams

## Features and Benefits

- Excellent adhesion to all common primed substrates
- Outstanding water and UV resistance
- High thermal resistance (service temperature up to 80°C)
- Cold resistance, maintaining elasticity down to -20°C
- Superior mechanical properties, including high tensile and tear strength, and high abrasion resistance
- Good breathability to minimize humidity accumulation under the coating
- Flexible and durable, accommodating normal building movements
- Non-toxic, user-friendly, and green product

## Limitations

Only white and light grey colors can be used for exposed areas

Not suitable for unsound substrates

Not recommended for waterproofing swimming pool surfaces in contact with chemically treated water

Low humidity conditions can extend tack-free and recoat times

## Storage

PU Elastobond 101 has a shelf life of 6 months from the date of manufacture if stored in the original unopened containers at temperatures between 5°C and 25°C. If these conditions are exceeded, consult Carbolink's Technical Department for advice.

## Technical Properties (at 25°C, 55% RH)

Color:	Variable
Specific Gravity:	1.35 ± 0.05
Skin Over Time:	4-6 hours
Tack-Free Time:	6-8 hours
Re-coatable Time	8-24 hours
Light Pedestrian Traffic Time:	24-48 hours
Final Curing Time:	7 days
Service Temperature	-20 to 80°C
Nonvolatile (Solid) Content:	≥ 82% (ASTM D2369)
Shore Hardness (Shore A)	40 ± 5 (ASTM D2240)
Shore Hardness (Shore 00):	80 ± 5 (ASTM D2240)
Adhesion in Peel after Water Immersion	≥ 35 N (ASTM C794)
Film Thickness:	Pass (ASTM C836)
Tensile Strength:	≥ 2.0 MPa @ 7 days (ASTM D412)
Bond Strength:	≥ 1.0 MPa @ 7 days (ASTM D4541)
Elongation:	≥ 400% @ 7 days (ASTM D412)
Tear Strength:	6.0 kN/m (ASTM D624)
QUV Accelerated Weathering	Pass @ 2000 hr (ISO 4582)
Hydrolysis (8% KOH, 15 days @ 50°C):	Pass

## Method of Use

### Surface Preparation

Ensure the surface is clean, dry, sound, and free from oil, grease, wax, cement laitance, loose particles, mold release agents, or curing membranes. Fill surface irregularities with a suitable product. Maximum moisture content should not exceed 5%. New concrete structures should dry for at least 28 days.

### Priming

Prime all substrates using water-based epoxy primer AT 107, which improves adhesion and stabilizes weak or porous substrates. Apply AT 107 using a brush or roller at a rate of 0.16 liters/m<sup>2</sup> to achieve around 70-75 microns DFT.

### Application

For airless spray application, PU Elastobond 101 can be diluted by 5-10% using Carbolink's Solvent PU. Use a low-speed mixer or electric drill for on-site mixing. Apply with a roller or brush, ensuring at least two coats. Do not leave more than 24 hours between coats.

### Consumption

**First coat:** 0.7-0.8 kg/m<sup>2</sup>

**Second coat:** 0.7-0.8 kg/m<sup>2</sup>

**Total consumption:** 1.4-1.6 kg/m<sup>2</sup> for 1 mm dry film thickness

## Pack Size

23Kgs, 20Kgs & 10kgs



## Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

## Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

## Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.