



# Technical Data Sheet

## BC BITU-CLASSIC 180

### Torch-Applied APP Modified Bituminous Waterproofing Membrane

#### 1. Product Description

BC Bitu-Classic 180 is a high-performance, prefabricated, multi-layer torch-applied waterproofing membrane based on Atactic Polypropylene (APP) modified bitumen.

It is reinforced with a 180 g/m<sup>2</sup> non-woven polyester mat, providing excellent mechanical properties and dimensional stability. The top surface is finished with either polyethylene film, fine sand, UV-resistant mineral stone, or aluminum foil, and the bottom surface with polyethylene film for easy torch application.

#### 2. Application Areas

BC Bitu-Classic 180 is recommended for a wide range of waterproofing and damp-proofing applications, including:

- Foundation walls and footings
- Retaining walls and basements
- Flat and sloped roofs
- Balconies, terraces, and wet areas
- Podiums and planter boxes
- Exposed roofs (recommended in 2 layers – the top layer finished with mineral stone or aluminum foil)

#### 3. Product Features

- Torch-applied for efficient and secure installation
- Excellent dimensional stability and cold flexibility
- Superior tensile strength and elongation for crack-bridging
- High puncture and impact resistance
- Weather, UV, and ageing resistant
- Resistant to salts, alkalis, and industrial pollutants
- Long service life under harsh environmental conditions



#### 4. Technical Properties – Bc Bitu-Classic 180

Property	Typical Value	Test Method
Reinforcement	Non-woven polyester 180 g/m <sup>2</sup>	ASTM D5147
Cold Flexibility	-5°C	ASTM D5147
Max. Tensile Force @ 23±2°C (Longitudinal)	800 N/5 cm	ASTM D5147 / UEAtc
Max. Tensile Force @ 23±2°C (Transversal)	600 N/5 cm	ASTM D5147 / UEAtc
Ultimate Elongation (Longitudinal)	45%	ASTM D5147 / UEAtc
Ultimate Elongation (Transversal)	50%	ASTM D5147 / UEAtc
Shear Resistance of Joints (Longitudinal)	700 N/5 cm	UEAtc
Shear Resistance of Joints (Transversal)	500 N/5 cm	UEAtc
Tear Strength (Longitudinal)	500 N	ASTM D4073
Softening Point (R&B)	155°C	ASTM D36
Penetration @ 25°C	20 dmm	ASTM D5
Compound Stability	No flow at 121°C	ASTM D5147
Static Load Puncture Resistance	L20	UEAtc
Impact Resistance	I15	UEAtc
Resistance to Puncture	800 N	ASTM E154
Water Absorption (24 hrs @ 25°C)	<3.0%	ASTM D5147



## 5. Tools Required

- Propane gas torch and gas cylinder
- Knife or cutter
- Measuring tape and marking string
- Steel trowel
- Roller or wooden float

## 6. Installation Guidelines

### Surface Preparation

- Ensure substrate is dry, clean, and free from dust, oil, or loose material.
- Fill cracks and surface imperfections using approved mortar or filler.
- Apply BC Bituminous Primer (ASTM D41 compliant) and allow to dry completely.

### Membrane Application

1. Unroll the BC Bitu-Classic 180 membrane and align properly.
2. Re-roll halfway, then heat the underside evenly using a propane torch until the polyethylene film melts.
3. Press the membrane firmly to ensure full adhesion and bonding.
4. Side laps should be minimum 10 cm and end laps minimum 15 cm.
5. Ensure molten bitumen flows slightly at the seams to confirm proper bonding.
6. Use mineral or aluminum-finished membranes for exposed applications.
7. Protect membranes installed under screed, tiles, or insulation layers.

## 7. APPLICATION LIMITATIONS

- Do not apply on wet, dusty, or frozen surfaces.
- Avoid installation during rain or high humidity.
- Do not overheat the membrane during torching.
- Always use appropriate PPE (gloves, eye protection, non-slip footwear).



## 8. PACKAGING & STORAGE

- Supplied in standard rolls, palletized and shrink-wrapped.
- Store rolls vertically in a cool, dry, and shaded area.
- Avoid stacking more than two pallets high.
- Shelf Life: 12 months in unopened packaging under recommended storage conditions.

## 9. Available Sizes

Thickness	Width x Length	Finish Options
3 mm	1 x 10 m	Sand / Polyethylene film
4 mm	1 x 10 m	Mineral / Aluminum / Sand
5 mm	1 x 8 m	Mineral / Aluminum

### DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

