



# Technical Data Sheet

## BC Bitu-Classic Fiber

### Torch-Applied APP Modified Bituminous Membrane – Fiberglass Reinforced

#### 1. Product Description

BC Bitu-Classic Fiber is a high-quality, torch-applied, APP-modified bituminous waterproofing membrane manufactured using a blend of premium bitumen and Atactic Polypropylene (APP) polymers. It is reinforced with a high-strength fiberglass mat to provide excellent dimensional stability and waterproofing performance.

The membrane is supplied with a top surface finish of polyethylene film, fine sand, UV-resistant mineral stone, or aluminum foil, depending on application requirements. The underside is protected with a polyethylene burn-off film for torch application.

#### 2. Application Areas

Suitable for a wide range of waterproofing applications, including:

- Foundations and retaining walls
- Basement walls and footings
- Wet areas and water retaining structures
- Roofs, terraces, balconies, and podium decks
- Exposed roofs (recommended two-layer system; mineral or aluminum finish on top layer)

#### 3. Product Features

- Torch-applied membrane for fast installation
- Excellent dimensional stability due to fiberglass reinforcement
- Resistant to aging, weathering, and UV (mineral/aluminum finish)
- Good puncture and impact resistance
- Superior adhesion and bonding to substrate
- Chemical resistance to salts, alkalis, and soil contaminants
- Suitable for both horizontal and vertical applications



## 4. Technical Properties

Property	Typical Values	Tolerance	Test Method
Reinforcement	Fiberglass Mat 50–90 g/m <sup>2</sup>	±10%	ASTM D5147
Cold Flexibility	-2°C to -5°C	—	ASTM D5147
Tensile Strength @ 23±2°C (Longitudinal)	300 – 450 N/5 cm	±20%	ASTM D5147 / UEAtc
Elongation (Longitudinal)	2% – 5%	±20%	ASTM D5147
Elongation (Transversal)	2% – 5%	±20%	ASTM D5147
Tear Strength (Longitudinal)	150 – 250 N	±15%	ASTM D4073
Softening Point	150 – 160°C	—	ASTM D36
Penetration @ 25°C	15 – 20 dmm	—	ASTM D5
Flow Resistance	No flow at 121°C	—	ASTM D5147
Static Load Puncture	L10 – L15	—	UEAtc
Impact Resistance	I10	—	UEAtc
Water Absorption	< 3%	—	ASTM D5147

## 5. Tools Required

- Gas torch & gas cylinder
- Knife/cutter
- Measuring tape & chalk line
- Trowel
- Roller/pressure tool



## 6. Installation Guidelines

### Surface Preparation

- Substrate must be clean, dry, and sound
- Repair cracks/voids & remove loose material

### Priming

- Apply bituminous primer complying with ASTM D41

### Membrane Application

1. Unroll, align, then re-roll
2. Torch underside until bitumen melts
3. Press & bond evenly, ensuring full adhesion
4. Seal laps: side laps 10 cm, end laps 15 cm
5. Ensure molten bitumen oozes at seams
6. Detail corners, upstands, and penetrations first

## 7. Limitations

- Do not install during rain or on wet surfaces
- Avoid excessive heating
- Ensure ventilation; use PPE

## 8. Packaging & Storage

- Supplied in roll form, palletized & shrink-wrapped
- Store in dry, shaded, ventilated area
- Shelf life: 12 months



## 9. Available Sizes

Thickness	Roll Size
2 mm	1 m × 20 m
3 mm	1 m × 10 m
4 mm	1 m × 10 m

*2 mm typically used as underlay / below-grade layer*

## 10. Health & Safety

- Wear heat-resistant PPE and gloves
- Ensure proper ventilation
- Follow local fire & safety codes

### 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.

