



# Technical Data Sheet

## BC Bitu-Classic 250

### Torch Applied APP Modified Bituminous Waterproofing Membrane

#### 1. Product Description

BC Bitu-Classic 250 is a high-performance, torch-applied APP modified bituminous waterproofing membrane reinforced with **250 gsm non-woven polyester mat**. It is manufactured using premium-grade bitumen modified with Atactic Polypropylene (APP) to provide excellent heat resistance, tensile strength, elongation, and long-term durability.

The membrane is finished with polyethylene film or mineral surface, suitable for both protected and exposed applications.

#### 2. Uses

BC Bitu-Classic 250 is suitable for waterproofing of:

- Roof slabs and terraces
- Basements and foundations
- Beams, columns, and footings
- Car parking decks and ramps
- Bridge decks and highway structures
- Water tanks, swimming pools
- Bathrooms, kitchens, and wet areas
- Pipe penetrations and duct areas

#### 3. Features & Advantages

- Torch-applied system for strong adhesion
- Excellent resistance to water, heat, and weathering
- High tensile strength and elongation
- Superior tear and puncture resistance
- Good low-temperature flexibility
- Resistant to salts, alkalis, and dampness
- Suitable for multi-layer waterproofing systems



#### 4. Product Information

Property	Description
Product Type	APP modified bituminous membrane
Reinforcement	Non-woven polyester, 250 gsm
Surface Finish	Polyethylene film / Mineral surface
Color	Black
Application Method	Torch applied
Installation	Fully bonded
Thickness Options	2, 3, 4, 5, 6 mm
Roll Sizes	1×20 m, 1×10 m, 1×8 m, 1×6 m
Application Orientation	Horizontal & vertical

#### 5. Technical Data

Property	Unit	Typical Value	Test Method
Softening Point	°C	155	ASTM D36
Penetration @25°C	dmm	15 – 20	ASTM D5
Cold Flexibility	°C	-5 to -10	ASTM D5147
Heat Resistance @120°C	—	Pass (No Flow)	ASTM D5147
Tensile Strength – Longitudinal	N/5 cm	1000	ASTM D5147
Tensile Strength – Transversal	N/5 cm	750	ASTM D5147
Elongation @23°C – Longitudinal	%	50	ASTM D5147
Elongation @23°C – Transversal	%	50	ASTM D5147
Lap Joint Strength – Longitudinal	N/5 cm	1000	UEAtc MOAT 30
Lap Joint Strength – Transversal	N/5 cm	750	UEAtc MOAT 30



Tear Strength – Longitudinal	N	650	ASTM D5147
Tear Strength – Transversal	N	500	ASTM D5147
Static Puncture Resistance	N	1100	ASTM E154
Dynamic Puncture Resistance	—	L4	UEAtc 4.4.1
Dimensional Stability – Longitudinal	%	> 0.6	ASTM D5147
Dimensional Stability – Transversal	%	> 0.6	ASTM D5147
Resistance to Aging (2000 hrs.)	—	No deterioration	ASTM D4799
Water Absorption (24 hrs. @25°C)	%	< 1	ASTM D5147
Water Vapor Transmission	g/m <sup>2</sup> /24h	< 0.5	ASTM E96
Resistance to Leakage at Joints	—	Pass	UEAtc

All values are based on laboratory tests. Results may vary  $\pm 20\%$ .

## 6. Application Method

- Substrate must be clean, dry, sound, and free from dust, oil, grease, or loose materials
- Prime surface using bituminous primer before application
- Unroll membrane and align overlaps (side laps  $\geq 10$  cm, end laps  $\geq 15$  cm)
- Torch heats the PE film until softened and fully bond to substrate
- Press firmly to ensure complete adhesion
- Detailing around corners, pipes, and joints to be done by cut-and-fit method

## 7. Application Limitations

- Do not apply on wet or damp surfaces
- Avoid application during rain or high humidity
- Do not overheat membrane
- Avoid walking on hot membrane
- Use proper PPE and safety shoes



## 8. Tools Required

Gas torch, gas cylinder, knife, trowel, measuring tape, marking string, safety equipment.

## 9. Packaging

BC Bitu-Classic 250 is supplied in standard rolls, palletized and shrink-wrapped for safe transportation.

## 10. Storage & Handling

- Store in a cool, dry, shaded, and well-ventilated area
- Do not expose to direct sunlight or moisture
- Store pallets upright and do not stack pallets on top of each other
- Follow FIFO (First In, First Out) storage practice

## 11. Health & Safety

- Use protective gloves, safety shoes, and eye protection during application.
- Torch application must be carried out by trained personnel only.
- Refer to the Safety Data Sheet (SDS) for detailed health and safety information.

### 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.

