

TECHNICAL DATA SHEET

BC Bitu-Classic

Torch-Applied APP Modified Bituminous Membrane

1. PRODUCT DESCRIPTION

BC Bitu-Classic is a high-performance, pre-fabricated, multi-layer torch-applied waterproofing membrane based on Attactic Polypropylene (APP) modified bitumen. It is reinforced with a non-woven polyester mat and finished on the top surface with either polyethylene film, fine sand, UV-resistant mineral stone, or aluminum foil.

This elasto-plastomeric waterproofing membrane offers excellent tensile strength, elongation, tear resistance, and superior dimensional stability.

2. APPLICATION AREAS

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

- Foundation walls and footings
- Retaining walls
- Flat roofs, balconies, terraces, and wet areas
- Exposed roofs (recommended in 2 layers, with the top layer finished with mineral stone or aluminum foil)

3. PRODUCT FEATURES

- Torch-applied for quick and easy installation
- Excellent performance in cold weather
- Superior tensile strength, elongation, and tear resistance
- High puncture and impact resistance
- Resistant to salts, alkalis, and weather conditions



4: TECHNICAL PROPERTIES

Property	Typical Values	Tolerance	Test Method
Reinforcement	160 g/m ² / 180 g/m ²	±10%	ASTM D5147
Cold Flexibility	-2 to -5°C	-	ASTM D5147
Max Tensile Force @ 23±2°C (Longitudinal)	700 to 800 N/5 cm	±20%	ASTM D5147 / UEAtc
Max Tensile Force @ 23±2°C (Transversal)	400 to 600 N/5 cm	±20%	ASTM D5147 / UEAtc
Ultimate Elongation (Longitudinal)	45% - 50%	±15%	ASTM D5147 / UEAtc
Ultimate Elongation (Transversal)	50%	±15%	ASTM D5147 / UEAtc
Shear Resistance of Joints (Longitudinal)	650 - 700 N/5 cm	±20%	UEAtc
Shear Resistance of Joints (Transversal)	350 - 500 N/5 cm	±20%	UEAtc
Tear Strength (Longitudinal)	400 - 500 N	±20%	ASTM D4073
Tear Strength (Transversal)	300 - 400 N	±20%	ASTM D4073
Softening Point	150 - 160°C	-	ASTM D36
Penetration @ 25°C	15 - 20 dmm	-	ASTM D5
Compound Stability	No flow at 121°C	-	ASTM D5147
Static Load Puncture Resistance	L15 - L20	-	UEAtc
Impact Resistance	I15	-	UEAtc
Resistance to Puncture	700 - 800 N	±10%	ASTM E154
Water Absorption	<3.2%	-	ASTM D5147



5. TOOLS REQUIRED FOR APPLICATION

- Gas torch and gas cylinder
- Knife or cutter
- Measuring tape
- Trowel
- Marking string

6. INSTALLATION GUIDELINES

Surface Preparation

- Clean the substrate thoroughly to remove dust, oil, grease, laitance, or loose particles.
- Repair surface imperfections and cracks.
- Ensure the surface is dry and structurally sound.

Priming

- Apply a solvent-based bituminous primer (BC Primer D-41) compliant with ASTM D41 to improve adhesion.

Membrane Installation

1. Unroll the BC Bitu-Classic membrane, align it straight with minimum side laps of 10 cm and end laps of 15 cm, then re-roll.
2. Heat the underside using a propane gas torch until the polyethylene film melts and the asphalt is softened.
3. Press firmly to ensure good bonding and overlapping.
4. Ensure melted bitumen visibly overflows at the seams.
5. Pre-detail corners, pipes, and penetrations using cut-and-fit methods before general installation.
6. Use mineral or aluminum-finished versions for exposed areas.



7. APPLICATION LIMITATIONS

- Do not apply on wet or moist surfaces.
- Avoid application during rain or in humid conditions.
- Do not overheat the membrane.
- Wear appropriate personal protective equipment (PPE) including flat, smooth-soled shoes.

8. PACKAGING & STORAGE

- Supplied in standard rolls, palletized, and shrink-wrapped.
- Store in cool, dry, and well-ventilated areas away from direct sunlight.
- Maximum storage period: 12 months.

9. AVAILABLE SIZES

Thickness	Width x Length
3 mm	1 x 10 meters
4 mm	1 x 10 meters
5 mm	1 x 8 meters

DISCLAIMER

The information provided in this technical data sheet is based on our current knowledge and experience. It is the responsibility of the user to verify the product's suitability for specific applications under actual site conditions. Building Chemistry Industry reserves the right to make changes to this product without prior

