

TECHNICAL DATA SHEET

BC Bitu-Gold (160-180)

Torch-Applied SBS Modified Bituminous Membrane

1. PRODUCT DESCRIPTION

BC Bitu-Gold (160-180) is a high-performance, pre-fabricated, torch-applied waterproofing membrane made from selective-grade bitumen modified with Styrene-Butadiene-Styrene (SBS) polymers, offering elastomeric properties.

Reinforced with non-woven polyester, the membrane is finished on the top surface with polyethylene film, fine sand, or UV-protected mineral stone or aluminum foil.

2. APPLICATION AREAS

BC Bitu-Gold (160-180) is ideal for waterproofing and damp-proofing applications in challenging environments:

- Waterproofing of backfilled foundations
- Waterproofing of underground basements, including permanent water submersion, pile caps, and raft foundations
- Waterproofing of retaining walls
- Waterproofing of flat roofs, terraces, balconies, and wet areas
- Suitable for exposed roofs (recommended in 2 layers with the second layer protected 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.
- Low cold flexibility up to -10°C
- 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	-10°C	-10°C	±20%	ASTM D5147
Max Tensile Force @ 23±2°C (Longitudinal)	800 N/5 cm	900 N/5 cm	±20%	ASTM D5147 / UEAtc
Max Tensile Force @ 23±2°C (Transversal)	600 N/5 cm	700 N/5 cm	±20%	ASTM D5147 / UEAtc
Ultimate Elongation (Longitudinal)	50%	50%	±15%	ASTM D5147 / UEAtc
Ultimate Elongation (Transversal)	50%	50%	±15%	ASTM D5147 / UEAtc
Shear Resistance of Joints (Longitudinal)	650 N/5 cm	750 N/5 cm	±20%	UEAtc
Shear Resistance of Joints (Transversal)	500 N/5 cm	550 N/5 cm	±20%	UEAtc
Tear Strength (Longitudinal)	450 N	500 N	±20%	ASTM D4073
Tear Strength (Transversal)	350 N	400 N	±20%	ASTM D4073
Softening Point (Mixture)	130 - 140°C	130 - 140°C	-	ASTM D36
Penetration @ 25°C (Mixture)	20 - 30 dmm	20 - 30 dmm	-	ASTM D5
Compound Stability	No flow @ 110°C	No flow @ 110°C	-	ASTM D5147
Static Load Puncture Resistance	L20	L25	-	UEAtc
Impact Resistance	I15	I10	-	UEAtc
Resistance to Puncture	800 N	1000 N	±10%	ASTM E154
Water Absorption	<3.2%	<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 compliant with ASTM D41 to improve adhesion.

Membrane Installation

1. Unroll the BC Bitu-Gold (160-180) 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. For exposed areas (horizontal or vertical), use mineral or aluminum-finished versions.



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. Health & Safety

- Apply with care; use fire-resistant PPE during torch application.
- Ensure good ventilation to avoid inhaling fumes.
- Keep work area clear; use anti-slip footwear to prevent falls.
- Handle rolls safely; store in a cool, dry place away from heat sources.

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

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