

Product Data Sheet

CasTech Proof APP

Nov-2025, Ver. 01.01



Torch-Applied APP-Modified Bitumen Waterproofing Membrane

DESCRIPTION

CasTech Proof APP is a high-performance, torch-applied waterproofing membrane reinforced with a spun-bond polyester mat and modified with Atactic Polypropylene (APP) for superior flexibility, UV resistance and durability. It is designed for roofs, terraces, basements and civil engineering structures.

TYPICAL USES

- Roofing: flat and pitched roofs, balconies, terraces
- Substructures: basements, retaining walls, bridge decks
- Wet areas: bathrooms, swimming pools, water tanks

ADVANTAGES

Key advantages:

- Exceptional durability – resists punctures, tears and hydraulic pressure
- Thermal stability
- Chemical resistance – impervious to salts, chlorides and soil chemicals
- Easy installation – torch-applied for seamless adhesion on vertical and horizontal surfaces

TECHNICAL PROPERTIES

Thickness (EN 1849-1 / ASTM D5147)	3 / 4 / 5 mm (± 5%)
Reinforcement	180 g/m ² / 200 g/m ² non-woven polyester
Tensile Strength L/T (EN 12311-1 / UEAtc)	750 – 1050 N/5 cm
Elongation L/T (EN 12311-1)	45 – 50%
Puncture Resistance – Static (EN 12730)	25 kg
Puncture Resistance – Dynamic (EN 12691)	1750 mm
Softening Point (ASTM D36)	150°C
Water Absorption (ASTM D570)	≤ 0.4%
Cold Flexibility (EN 1109)	-5°C
Tear Resistance, Nail Shank (EN 12310-1)	180 (wide) / 200 (long)

Values may vary ± 10% per batch. Complies with ASTM, EN and UEAtc standards.

SURFACE PREPARATION

Clean, dry and prepare the substrate before installing the membrane.

INSTALLATION

- Torch the underside of the membrane while unrolling
- Overlap 100 mm at sides and 150 mm at ends
- Heat-seal all laps for watertight bonds

PROTECTION

- Vertical surfaces: use CasTech Board for backfill protection
- Horizontal surfaces: apply a 25 mm screed or surface finish

PACKAGING

- Standard: 1 m × 10 m rolls
- Custom sizes: available on request

STORAGE AND SHELF LIFE

Store rolls palletized, under shade and away from direct heat and sunlight. Shelf life is 12 months in original packaging.

HEALTH AND SAFETY

PPE: Wear gloves.

Additional information: Refer to MSDS for handling guidelines (available on request).

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TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on

projects when requested. Technical data sheets on other CasTech products and guidance on their use are available on request.

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