



## APP Bitumen Membrane Installation Guide

**Atactic Polypropylene (APP) modified bitumen membranes** offer excellent waterproofing for roofs, basements, and foundations. To ensure long-term performance, follow this step-by-step guide for proper installation.

### Tools & Materials Required

- APP membrane rolls
- LPG torch or gas burner
- Primer (bitumen-based)
- Steel trowel or roller
- Utility knife or scissors
- Broom or air blower
- Protective gloves & shoes
- Roof roller (for sealing overlaps)

### Step 1: Surface Preparation

- Clean the substrate thoroughly—remove dust, oil, debris, and loose materials.
- Ensure the surface is dry and smooth.
- Repair cracks and holes with suitable mortar or sealant.
- Apply a coat of **bitumen primer** (0.3 – 0.5 L/m<sup>2</sup>) to promote adhesion. Let it dry completely (usually 4–6 hours).

### Step 2: Membrane Prepositioning

- Unroll the membrane and align it on the surface **without heating**, to check positioning.
- Cut and pre-fit around corners, edges, and penetrations.
- Re-roll carefully to prepare for torching.

### Step 3: Torch-On Application

- Start from the lowest point (for slope areas like pitched roofs).
- Use a propane torch to heat the underside of the membrane and the



substrate simultaneously.

- As the bitumen melts (a shiny liquid layer appears), slowly press the membrane forward.
- Use a roller or heavy pressure to eliminate air pockets and ensure full bonding.

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#### **Step 4: Overlaps and Sealing**

- Overlap adjacent rolls by:
  - **10 cm** on the side
  - **15 cm** at the ends
- Torch the overlaps thoroughly to bond them tightly.
- Press down with a roller to create a continuous waterproof layer.

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#### **Step 5: Finishing & Protection**

- Inspect all joints and overlaps for full adhesion.
- Apply extra torching if cold spots or unsealed areas are found.
- For exposed areas, apply a **UV-protective aluminum coating** or mineral-surfaced finish.
- Avoid foot traffic for at least 24 hours.

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#### **Safety Tips**

- Always wear fire-resistant gloves and protective clothing.
- Ensure proper ventilation in enclosed spaces.
- Keep a fire extinguisher nearby during torching.

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#### **Maintenance Tips**

- Inspect annually, especially after storms or extreme weather.
- Clear debris and ensure drainage paths remain open.
- Promptly repair punctures or blisters using patch membrane and torching.