

Types of Bitumen Technologies

1. Torch-applied Bituminous Membranes
2. Self-adhesive Bituminous Membranes
3. Self-adhesive Bituminous Tapes
4. Hot Melt Bitumen
5. Liquid-applied Membrane

❖ Torch-applied Bituminous Membranes:

Torch-applied Membrane are a thin layer of watertight material fully-bonded to the surface. It is a flexible system, able to maintain its waterproof capacity without causing cracks.

Main Uses

- Retaining walls, basements and below-ground structures
- Flat roofs under protective layers of ballast
- Balconies and terraces under tiles
- Wet areas
- Underground car parks
- Bridges
- Raft slabs and foundations
- Protection of various substrates in a wide range of applications

Advantages

- Fully-bonded system
- Resistant to the most extreme weather conditions
- Ease of maintenance
- Excellent mechanical properties
- Self-adhesive Bituminous Membranes



❖ Self-adhesive bituminous membranes

Self-adhesive bituminous membranes are covered by a release liner, which is removed during application.

Main Uses

- Wood substrates
- Flammable areas
- Small areas, vertical surfaces or those areas with difficult access
- Retaining walls, basements and below-ground structures

Advantages

- No torch needed
- Safer, faster installation
- No special equipment needed
- Excellent adhesion, even at low temperatures
- Self-adhesive Bituminous Tapes



❖ Self-adhesive, polymer-modified bituminous sealing tapes

Self-adhesive, polymer-modified bituminous sealing tapes, which are laminated with aluminum foil on the upper side and contain no reinforcement.

Main Uses

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Sealing and repairing building cracks, roofs, sheet metal work, bituminous felts and other types of roofing sheet membranes

Advantages

- No torch needed
- UV-resistant
- Excellent watertightness
- Multi-purpose tape
- Flexible and easy to apply
- Safer, faster installation
- Hot Melt Bitumen



❖ Hot Melt Bitumen

Bitumen hot melt is a polymer-modified bitumen, either elastomeric or plastic, packed in a solid block state. For application, the block is heated and applied onto the substrate, forming a fully-bonded waterproofing layer.

Main Uses

- Roofing, such as green roofs
- Podium decks
- Balconies and terraces
- Car parking garages
- Civil engineering projects, such as foundations, slabs and retaining walls
- Bridges and access roads
- As an adhesive to bituminous sheets or insulation boards, for example



Advantages

- Solid-modified bitumen
- Provides a strong, lasting bond
- In situ waterproofing - local application exactly where it's needed
- Excellent alternative for areas with many complex details

❖ Liquid-applied Membrane

Bitumen liquid-applied membranes are the perfect solution for seamless, fully-adhered and safe systems. They are polymer-modified bitumen emulsions which require no torch or flame to be applied. They are available as water-based or solvent-based coatings.

Main Uses

- Below-ground areas facing ground moisture, such as foundations
- Wet areas
- Swimming pools
- Renovation projects
- Detailing
- Typically used for residential and industrial buildings

Advantages

- No torch needed
- Fully-bonded, seamless system
- Crack-bridging capability
- Safer, faster installation

