

## CONSTRUCTION METHOD

### Waterproofing for Basement using LEMAX 1.5mm PE



#### Field

Lemax 1.5 PE waterproof membrane is used as a waterproofing membrane for roof structures & balustrades of drying yards, balconies & outdoor corridors, low-lying areas, bridges and tunnels, aerodrome and sloping areas.

#### Product Description

Lemax is a waterproof membrane made of SBS membranes with dense adhesion between rubber substances, high elasticity combined with sand and bitumen. The surface layer together with the adhesive layer has good adhesion, especially with an isolation film to protect the contact surface with long-lasting adhesion. The bottom has an insulating paper layer, when pasting, peel off the paper and then stick it directly on the primer/coating on the surface to be applied, no need to heat.

#### Application

Suitable for flat or sloping roofs, foundations, retaining wall, balconies, roadbed, viaducts, tunnels, water tank, swimming pools...

#### Advantage features

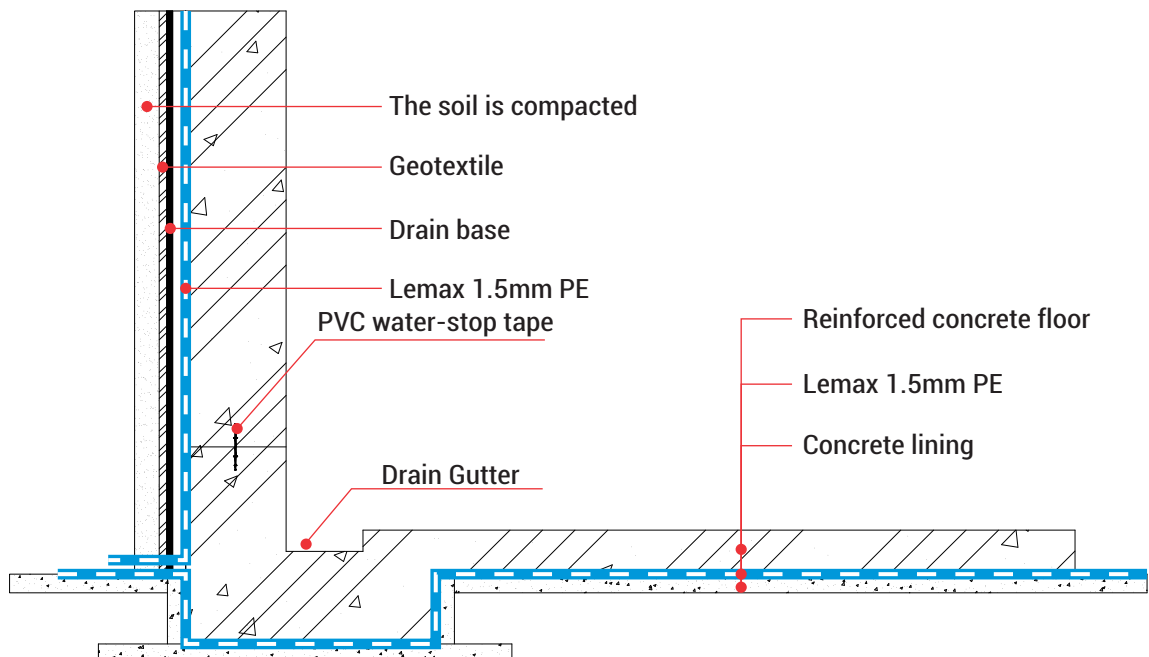
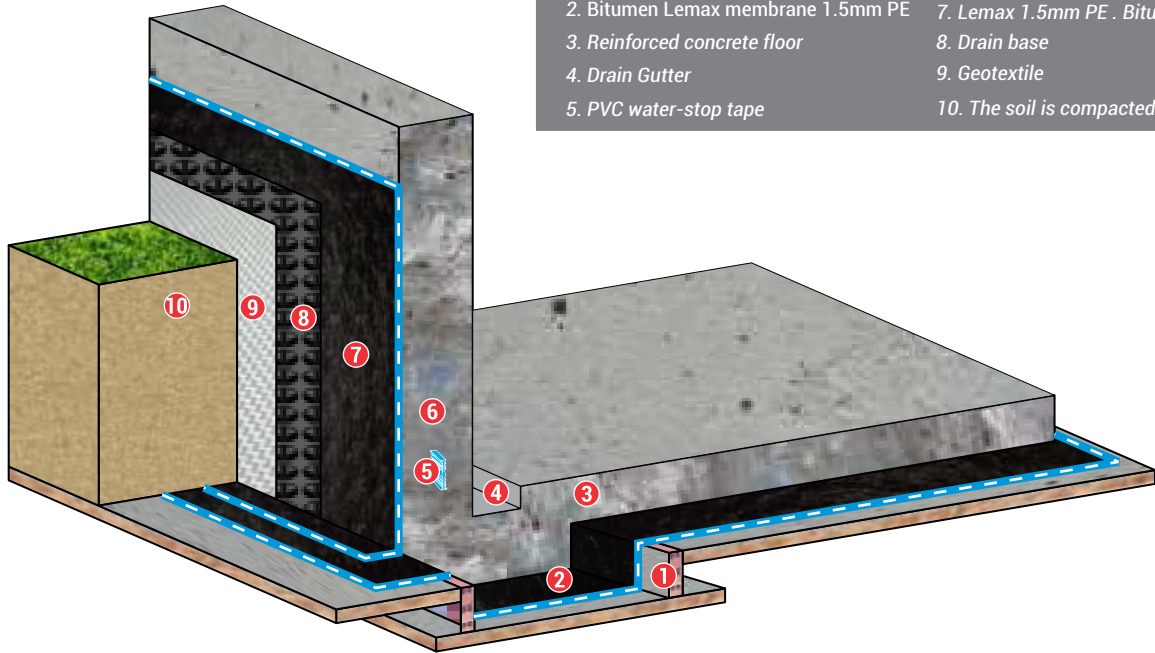
- Self-adhesive membrane is applied directly on the primer without using heat
- High safety during construction because no heat is used
- Easily and quickly fasten to concrete substrates. The construction process is safe, fast and clean.
- Tear resistant due to high elasticity
- SBS rubber coating compound has the function of self-protection and self-sealing of small holes.

## Waterproofing for Basement using LEMAX 1.5mm PE

### System structure










#### Construction layers for waterproofing

- |                                    |                                  |
|------------------------------------|----------------------------------|
| 1. Concrete lining                 | 6. Basement wall                 |
| 2. Bitumen Lemax membrane 1.5mm PE | 7. Lemax 1.5mm PE . Bitumen Film |
| 3. Reinforced concrete floor       | 8. Drain base                    |
| 4. Drain Gutter                    | 9. Geotextile                    |
| 5. PVC water-stop tape             | 10. The soil is compacted        |



## Waterproofing for Basement using LEMAX 1.5mm PE

### Product images and construction equipment and tools

		
Lemax 1.5mm PE	Lining Lemax SB Primer	Revinex
		
Expasion tape	Neotex <sup>®</sup> PU Joint	Jointex <sup>®</sup>
		
Brush – Roller	Stirrer	Handheld Torch

### Construction

- **Applying LEMAX 1.5 PE self-adhesive membrane**

- **Surface preparation**

The surface must be cleaned of impurities such as sand, dust, dirt, oil. All concave surfaces, defects, loose textures, and loose concrete must be removed and repaired with Revinex mixed cement mortar.

- **Applying Primer**

Use Lemax SB Primer rated at 0.2kg/m<sup>2</sup> to apply on smooth and dry surfaces by brush, roller or spray. It is only allowed to. apply the waterproofing membrane when the primer has dried for about 1 hour. The low viscosity of the paint makes it easy to get into the concrete holes, helping to better bond between the primer and the concrete surface. In addition, Primer also acts as a binder for dust that accumulates on concrete surfaces left after cleaning.

## Waterproofing for Basement using LEMAX 1.5mm PE

### ▪ Edge overlap

- Start gluing the waterproofing membrane from the lowest points or grooves, as water will flow through or parallel to those grooves but not back. The residue at the membrane levels will be used to install the overlapping panels in order, the next membrane will overlap the previous one. Begin construction of the membrane by unrolling the roll of **Lemax 1.5mm PE** membrane and aligning it with the side seams.
- Unroll half of the roll and stand on the unrolled part to prevent the roll from moving. The minimum overlap at the side of the membrane is 70mm and the end is 100mm.

### Images of construction steps

(Images are for reference only)



Surface preparation



Applying membrane



Construction of overlap welding with electric welding machine



Finish surface

### • NOTES WHEN APPLYING Self-Adhesive Membrane LEMAX 1.5MM

- At overlap, the seam must be from 7cm to 10cm, use a trowel to seal the junction.
- Weak sites need reinforcement: This prolongs the adhesion quality and membrane life. Therefore, focus on reinforcing weak points such as: Baseline corners, expansion joints, pipe necks.
- If there is a phenomenon of air bubbles appearing to blister the membrane after application, puncture the area with a sharp object to release all the air, then glue another sheet over with an overlap seam of 50mm.
- After applying the waterproof membrane system, it is necessary to immediately make a protective layer to avoid tearing or damaging the membrane due to circulation, transportation of tools and equipment, and steel placement.
- Apply the protective layer as soon as possible. If left for a long time, the membrane will be blistered from the glued surface due to expansion under temperature changes.