

# Expangeo\* PVC

## PVC waterproofing membranes

### Uses

**Expangeo\* PVC** is polyvinyl chloride resin based pre-formed waterproofing membrane design for the waterproofing of all types of roofs, basements, retaining walls, artificial lakes, underground water tank (External), swimming pool (External), roof garden, etc.

### Advantages

- Excellent aging resistance.
- Welding installation.
- Environment friendly no pollution.
- High tensile strength, good elongation and dimensional stability.
- Permanent pressure strength
- Excellent weldability
- Resistance to the effects of aggressive underground water.
- Elasticity and flexibility in the cold or hot environment.
- Excellent puncture resistant
- Resistance to penetration by plant roots
- Resistance to mechanical loading during the settlement of structures
- Reliable performance and long service life

### Description

Expangeo\* PVC are extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics.

The raw material is polyvinyl chloride resin, mixed with plasticizer, filler, ultraviolet absorber and other auxiliaries.

The Expangeo\* PVC is available in different thickness, easy to install and weld, and can also be linked with conventional Expanbar\* PVC waterstop networks.

### Technical support

Fospak provides a technical advisory service for on-site assistance and advice on selection of product, and its application.

### Installation

**All Surfaces** - It is essential to create a sound, solid and stable substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids, grout around all penetrations such as utility conduits, pipes, etc. for stability.

**Horizontal Blinding** - Monolithic concrete blinding, sand or mud surface is preferred. The blinding must be free of loose aggregate and sharp protrusions. The surface does not need to be dry, but standing water must be removed.

**Vertical Sheet Piling** - Use concrete, shotcrete plywood or other approved facing to sheet piling to provide support to the membrane.

Place the membrane on prepared substrate, all side lap and end lap joint must be thermal fusion welded, thermal fusion welding consist of a hot wedge or hot air devices that heat the surface of the material to a molten state, pressure rollers follows the heating device to press the both sheets ends together while the surfaces of each sheet is melted, this will provides a homogenous watertight joint.

### Properties

Appearance	: Black/Beige sheet
Breaking strength N/mm	: 35.50 Min
Tear strength, N	: 33.50 Min
Elongation at break on 25 mm G.L. (%)	: 400 Min

## Protection of membrane

Once the membrane is installed on horizontal surface and all joint are welded, it must be protected either by using protection board or lean concrete to protect the membrane, prior to the fixing of steel bars, on vertical surface place protection board prior to the back filling.

## Compatibility

Expangeo\* PVC is compatible with Expanbar PVC waterstop, consult with Fospak technical department for the installation procedure.

## Estimating - packaging

Expangeo\* PVC membrane is available in different thicknesses, normally it is available in 1.00, 1.50, 2.00, 2.50 and 3.00 mm, other than normal thickness, special sizes can also be produce on request (Depend on required quantity)

## Roll size

Thickness	Roll length
0.25 mm	50 or 100 mt.
0.50 mm	50 or 100 mt.
0.75 mm	50 or 100 mt.
1.00 mm	50 or 100 mt.
1.50 mm	25 or 50 mt.
2.00 mm	25 or 50 mt.
2.50 mm	25 or 50 mt.
3.00 mm	25 or 50 mt.

## Storage

Expangeo\* PVC can be store under shade in original packing.

**Freezing point: Not applicable**

## Precautions

### Health and safety

Expangeo\* PVC does not fall into the hazard classifications of current regulations. However, it should not be swallowed.

Suitable protective gloves and goggles should be worn while welding of sheet joint. In case of skin burning seek medical advice.

For further information consult the Material Safety Data Sheet available for this product.

### Fire

Expangeo\* PVC non-flammable, avoid direct contact with fire.

## Cleaning and disposal

The disposal of waste pieces should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

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