

# AQUATHENE APF-3000

SELF-ADHESIVE, MODIFIED BITUMEN WATERPROOFING MEMBRANE WITH CROSS LAMINATED PE FILM



## DESCRIPTION

**Aquathene APF-3000** is a pressure sensitive adhesive high polymer fully bonded waterproofing membrane.

**Aquathene APF-3000** is a high performance membrane and a patent product researched and developed by Keshun through innovative technology. The development of the strong overlapping double layer film together with the vertical and horizontal mesh enhances tensile strength, UV resistance, dimensional and thermal stability. During the wet installation process the **Aquathene APF-3000** membrane reacts to form a strong and permanent chemical bond with fresh cement slurry to provides an excellent barrier between the membrane and structure which is impervious to water.

Single Sided Adhesive consists of-Valeron cross laminated film, Pressure sensitive reaction self-adhesive layer, Isolation film

Double sided Adhesive consists of- Isolation film, Pressure sensitive reaction self-adhesive layer, Valeron cross laminated film, Pressure sensitive reaction self-adhesive layer, Isolation film

## RECOMMENDED FOR

Basement Slab, Tunnel and Subway structures, Planter boxes, Podium, R.C. Roof, R.C. Retaining wall, Terraces, Lift Pit Walls, Roof Garden.

## ADVANTAGES

The single or double sided self-adhesive, works as a vapour barrier that permanently forms a chemical bond with cement slurry, Self-healing ability  $\leq 2$ mm diameter, localizes seepage if damaged, stability and tear resistant, high elongation and stretch ability, simple and economical installation, flexible and root resistant, flexibility for detailing around edges.

## APPLICATION PROCEDURES

### • Surface Preparation

Horizontal installation of **Aquathene APF-3000** – Concrete surfaces or blinding surfaces must be free from any sharp protrusions, oil, grease, clean, dry, stagnant water and other contaminants. Temporary diversion is recommended if there is running underground water prior basement installation.

Vertical installation of **Aquathene APF-3000** – The membrane will be installed on a smooth, clean and dry and must be free from any sharp protrusions on concrete surfaces.

### • Installation

Prepare and mix the cement slurry with an electrical mixer in a clean container. Lay the **Aquathene APF-3000** membrane to a specific length after setting out according to site conditions. Align the membrane and unroll with the Valeron cross laminated film surface facing the concrete pour. The unrolled membrane should be in a staggered laying method to avoid a build-up of end joints. The membrane should be aligned against the previously laid sheet allowing for 80-120mm edge laps and 80-120mm end laps. Pre wet or dampen the substrate with clean water prior to paving of cement slurry. Remove all Isolation and overlap film, press firmly to let the entrapped air to escape in between membrane and cement slurry. Use a roller to ensure complete adhesion at all joints and overlaps.

## STORAGE

- **Aquathene APF-3000** to be stored in cool and dry place and has a shelf life of 12 months.
- **Aquathene APF-3000** must be stored in an upright position.

## PACKAGING

**Aquathene APF-3000** is available in:

- - 1.2mm, 1.5mm and 2.0mm thickness. (Single Sided Adhesive)
- - 1.5mm and 2.0mm thickness. (Double sided Adhesive)
- - 1m x 20m/roll.

## LIMITATION

- Not subject to traffic and must be protected by protective screed or polystyrene board.
- Not recommended for installation during rainy days or on stagnant water conditions.

## TECHNICAL DATA

No.	ITEM	TEST CONDITION	TYPICAL VALUE	TEST METHOD
1	Thickness mm	≥1.5	1.5	ASTM D370703
2	Tension Strength Mpa	( 23 + 2 ) °C	≥2.5	ASTM D412 modified
3	Elongation at break %	( 23 + 2 ) °C	≥200	ASTM D412 modified
4	Peel Adhesion To Concrete	( 23 + 2 ) °C	≥2.0N/mm	ASTM D903 modified
5	Puncture Resistance	( 23 + 2 ) °C	≥200 N	ASTM E154
6	hydrostatic pressure resistance	( 18-24°C )	0.7MPa, 1h No water leakage	ASTM D5385-1993 modified
7	Water vapor transmission ng/(m <sup>2</sup> •S•Pa)	( 38±0.6°C )	( Relative humidity ) 0.36	ASTM E 96/E 96M 6
8	Low temperature flexibility	-30°C	No cracking	ASTM D1970-01
9	Tear Strength N	( 23 + 2 ) °C	35.7	ASTM D624-00

## TECHNICAL SUPPORT

For more information, alternative application or alternative proposal, please contact our Technical Department at the email address below.

## SAFETY PRECAUTIONS

We recommend using protective gloves during installation. **Aquathene APF-3000** should be lifted by two site personnel.

## CLEANING

Proper housekeeping immediately after complete installation.



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