

# AQUELROOF UV1500

Flexible Thermoplastic Polyolefin roofing membrane

## Product Description

AQUELROOF UV1500 is a flexible Thermoplastic Polyolefin single-ply post-applied roofing waterproofing membrane. Membrane is reinforced by using polyester fiber mesh cloth as internal reinforcement material, which belongs to synthetic polymer waterproof membrane. Homogenous (non-reinforced) membrane is used in roofing applications where pre-formed TPO accessory products are not appropriate.

## Features

- Strong aging resistance and stability.
- High mechanical properties in tensile strength, tear resistance and puncture resistance
- Smooth surface with high light reflection rate which result in energy saving
- Resistance to high and low temperature, maintaining flexibility at low temperature and mechanical strength at high temperature
- Chemical resistance to acid, alkali and other microbial growth
- Environmental friendly product

## Typical Properties

PROPERTY	TYPICAL VALUE	TESTING METHOD
Thickness	1.5mm, 2mm	
Breaking strength	≥ 900 N	ASTM D751
Elongation at reinforcement break	≥ 10%	ASTM D751
Tearing strength	≥ 200 N	ASTM D751
Puncture resistance	≥ 1800 N	ASTM E154
Seam strength	≥ 300 N/25 mm	ASTM D751
Water Absorption	± 3%	ASTM D471
Rate of dimensional change (70°C,6h)	± 1%	ASTM D1204
Properties after heat aging, Weight change (mass), max %	± 1.5%	ASTM D573

Typical test values represent average values from samples tested in recommended conditions. Refer to Technical Letter 1 for more information.

## Supply

<b>Roll Size</b>	2M x 20M
<b>Shelf Life</b>	12 months storage in dry condition Store off ground, under tarps or otherwise protected from rain and ground moisture

## Application

### Substrate Preparation

- Surfaces must be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Remove contaminants such as grease, oil and wax from exposed surfaces. Remove dust, dirt, loose stone and debris. Concrete must be properly cured (minimum 7-days for normal structural concrete and 14-days for lightweight structural concrete).
- Chase out all holes and voids and fill with appropriate mortar to provide a smooth and level surface; mortar joints should be flush pointed.
- The substrate shall be sound and stable with zero substrate movement. Do not apply cementitious over joints or non-core filled reinforced blockwork.

### Application

- The TPO sheets are loose laid over an acceptable substrate and is installed as continuous roofing or waterproofing layer on the roof.
- Rolls are overlapped (side laps and end laps) prior to the heat welding of the seam areas.

## Safety and Handling Information

Users must read and understand the product label and safety data sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office, and in some cases from our web site at [gcpat.com](http://gcpat.com).

## Technical Services

For assistance with working drawings for projects and additional technical advice, please contact GCP Applied Technologies.

[gcpat.com](http://gcpat.com) | For technical information: [asia.enq@gcpat.com](mailto:asia.enq@gcpat.com)

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