

# Aquaprufe 204

## Metal Roof Protection Membrane

### Product Description

This product is a high-performance polymer waterproof membrane specially developed for metal roof waterproofing. It is composed of a polyvinylidene fluoride (PVDF) composite film as the surface reinforcement material, coated with a refined butyl adhesive layer and a release layer. The product can be installed on the substrate surface using a dry-lay process, forming a "skin-like" waterproof protection. It features pressure sensitivity, lasting tackiness, creep resistance, and self-healing properties. It can not only counteract damage to the primary waterproof layer caused by various stresses from the substrate but is also self-repairing. It is suitable for exposed waterproofing applications on light steel structure color steel plates and other metal roofs.



### Where To Use

Suitable for waterproofing projects on various exposed metal roof structures, including industrial or civil building metal roofs, sunrooms, concrete roofs, color steel tiles, etc.

### Specifications

Surface Color	Length x Width x Thickness
White	0.5mm x 0.5m x 20m

### Product Features

- Good initial tack and lasting tackiness, adheres easily and firmly.
- Strong weather resistance, stable performance in exposed applications.
- Excellent UV resistance, high solar reflectance, reduces indoor temperature.
- Butyl adhesive layer offers excellent water and air tightness, full adhesion prevents water tracking.
- Cold self-adhesive application, simple operation, safe, and highly efficient.

### Construction Steps

Base cleaning → Spray/Roll anti-rust fixative → Detail reinforcement → Snap lines for positioning, membrane pre-positioning → Membrane installation → Membrane seam overlapping → Detail sealing → Final inspection and acceptance

## Technical Specification

Standard:Q/SDKS 098-2022

NO.	Item		Technical Indicators
1	Holding Adhesion $\geq$		15 min
2	Heat Resistance (100°C, 2h)		No flow, dripping, slippage $\leq$ 2mm
3	Low-temperature Flexibility		-30°C, no cracks
4	Impermeability (0.6MPa, 120min)		Impermeable
5	Tensile Properties	Tensile Force (N/50mm) $\geq$	300
		Elongation at Max Force /% $\geq$	50
		Behavior during Tensile Test	No separation between adhesive layer and polymer film
6	Shear Strength of Seams (N/mm) $\geq$		2
7	Bond Strength with Aluminum Plate (N/mm)	Original $\geq$	1.5
		Retention after Heat Treatment /% $\geq$	80
		Retention after Water Immersion /% $\geq$	80
8	Peel Strength with Cement Mortar (N/mm)	Original $\geq$	1.5
		Retention after Heat Treatment /% $\geq$	80
9	Heat Aging (80°C, 168h)	Retention of Elongation at Max Force /% $\geq$	80
		Low-temperature Flexibility	-30°C, no cracks
10	Artificial Weathering Accelerated Aging	Time	2500h
		Appearance	No blistering, cracking, delamination, adhesion loss, or holes in film
		Tensile Force Retention /% $\geq$	80
		Retention of Elongation at Max Force /% $\geq$	80
		Low-temperature Flexibility	-30°C, no cracks
11	Solar Reflectance $\geq$		0.65
12	Acid Resistance (10% HCl by volume, 168h)		No discoloration, swelling, blistering, or powdering of film layer
13	Alkali Resistance (10% NaOH by mass, 168h)		No discoloration, swelling, blistering, or powdering of film layer
14	Salt Spray Resistance (2000h) $\leq$		Level 1
15	Hemispherical Reflectance $\geq$		0.85

## Storage And Transportation

- During storage and transportation, products of different types and specifications should be stored separately and not mixed. Avoid exposure to sunlight and rain, ensure ventilation, and keep away from fire sources. Storage temperature should not exceed 45°C. If stored vertically, only a single layer is allowed
- Prevent tilting or horizontal pressure during transportation; cover with canvas if necessary.
- Under normal storage and transportation conditions, the shelf life is 1 year from the date of production.