

# Why Choose PVC

Understanding the Benefits



The Right Choice for Low-Slope Roofing Products

800-786-1492 • mulehide.com

Rugged • Time-Tested • Weather-Tested

## Proven Performance

- Over 50 years of proven performance - Same basic formulation

## Chemical Resistance

- High resistance to greases, oils, animal fats, jet fuels, acids, and other chemicals compared to other single-ply membranes
- Great for restaurants, food processing, airports and manufacturing facilities

## Fire Resistance

- Exceptional fire resistance. PVC is self-extinguishing when the source of the flame is removed
- Great option to achieve steeper slope UL fire ratings, than with TPO or EPDM Membranes
- Perfect for buildings with solar panels or other electrical components, restaurants with potential for rooftop grease or oil fires, and more

## Highly Reflective Options – (Cool Roof)

Most PVC membranes are highly reflective, with cooling and energy cost savings in warmer climates.

## Heat Weldable Seams

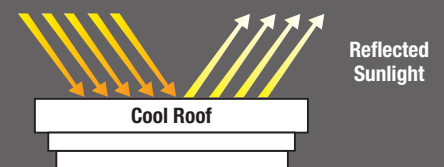
- Heat fusion allows for seams of exceptional strength and watertightness
- Properly hand-welded seams exhibit “bleed-out,” a visual indicator of a good weld to the operator

## MuleHide KEE HP Membrane - The Premium PVC Option

- KEE HP (High-Performance) - is an additive that enhances chemical resistance even beyond standard PVC membrane
- The HP (High-Performance) Advantage

KEE HP additive is a higher grade than standard KEE used by the majority of other manufacturers. Benefits over standard KEE include:

- Chemical Resistance
- Seam Weldability
- Cold-Temperature Flexibility



Heat Weldable Seams

PVC KEE HP Chemical Resistance - Percent of Improvement Over Standard PVC (Aged 28 days at 140°F)			
Diesel Fuel	Jet Fuel	Peanut Oil	Animal Fats
56%	42%	67%	61%

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## Type IV Advantage

- MuleHide polyester reinforced PVC & KEE HP meets the ASTM (PVC Roofing Membrane standard)

### Type III And IV Requirements

- Many manufacturers only meet Type III
- Type IV requires higher performance attributes than Type III (see chart)

Mule-Hide Type IV PVC % Increase Over Type III		
Tearing Strength	Elongation	Breaking Strength
180%	66%	60%

## Optimal Membrane Construction

- Approximate 50/50 ratio between top and bottom ply
  - Some manufacturers have a significantly thinner top ply (weathering layer) to cut cost on valuable anti-weathering ingredients at the expense of performance
  - MuleHide PVC & KEE HP top ply is a thick, uniform blend of important ingredients like anti-microbials, heat stabilizers, and ultraviolet inhibitors
  - A thin top ply also makes the membrane far more prone to damage from abrasion (scuffing)

## PVC & KEE HP System Options

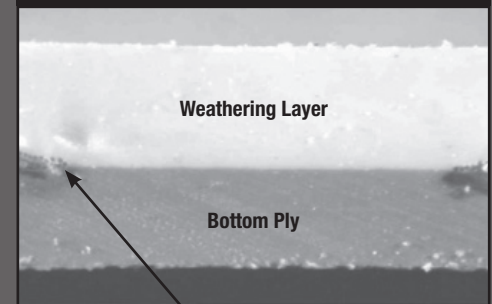
- Mechanically Attached
- Fully Adhered
- Induction Welded

## PVC & KEE HP Warranties

- Up to 30 Year NDL (No Dollar-Limit) warranties available
  - Available on commercial only
  - Covers labor and materials, and is not limited to the original installed cost
  - Must be installed by a MuleHide warranty eligible applicator
  - Requires inspection by a MuleHide technical representative
- Up to 20 year residential warranties available
  - Material only warranty



Optimal Membrane Construction - Captured at 50X



Yarn Reinforcement  
(Polyester Scrim)



The information herein should not be considered all-inclusive and should always be accompanied by a review of the MuleHide specifications and guidelines and good application practices.

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