

# HULK STPE® Breathable Waterproofing Membranes for Commercial "Change-of-Use" Assets



Protect Your Facility Conversion From The Inside Out

## Mitigate Hidden Vapor Pressure and Structural Rot in High-Load Environmental Conversions.

Converting a standard commercial warehouse into a high-performance, specialized facility changes more than just the interior floor plan; it fundamentally alters the building's thermodynamics. Traditional commercial roof profiles are built for static, dry conditions. When your facility transitions into a high humidity or heat-intensive operation, internal moisture migration can trap water within your roof assembly, leading to accelerated structural deck rot, mold growth, and premature envelope failure.

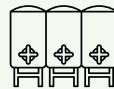
## The Thermodynamics of 'Change-of-Use' Operations

When upgrading a facility to handle high internal environmental loads, standard non-permeable roof coverings wrap escaping moisture. Our Silyl-Terminated Polyether (STPE) fluid-applied systems bridge the gap between absolute exterior waterproofing and critical interior vapor transmission.



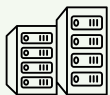
### Indoor Ag & Cannabis Grow-Ops

Intense micro-climates, hydroponic setups, and continuous irrigation cycles push internal relative humidity to extreme levels. STPE prevents this continuous vapor drive from saturating the roof deck insulation from underneath.



### Craft Breweries & Distilleries

Large-scale washdowns, open boiling kettles, and high-temperature fermentation processes release massive, sudden bursts of localized humidity, demanding an advanced, breathing building envelope.



### Data Centers & Server Hubs

Massive computing infrastructure generates intense, continuous dry heat. This creates a powerful thermal gradient that drives any ambient structural moisture directly upward into the sub-roof layers.



### Commercial Kitchens & Food Processing

Constant steam generation, rigorous sanitation protocols, and heavy HVAC air-handling requirements create erratic interior pressure dynamics that stress traditional, brittle roof membranes.

## The HULK STPE Advantage: Dynamic Vapor Permeability

Traditional liquid rubbers or traditional single-ply membranes (like EPDM or SBS torch-on) create an absolute vapor block on both sides. If moisture migrates into the insulation layer from the interior, it has no escape route. STPE changes this dynamic entirely:

- Vapor Permeable ("Breathing") Matrix: Cured STPE molecules are uniquely structured to allow microscopic water vapor molecules to pass through and escape into the atmosphere, while maintaining a completely impenetrable barrier against exterior liquid water.
- Elimination of Structural Rot: By allowing the building envelope to naturally vent internal vapor pressure, insulation layers stay dry, structural metal decks resist rust, and wood-framed assemblies avoid catastrophic dry rot.
- Primerless Direct Adhesion: STPE bonds aggressively directly to existing weathered SBS, smooth asphalt, metal, or single-ply substrates, eliminating the cost, waste, and operational disruption of a full structural tear-off during your interior renovation.



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## Engineering Advisory: Prevent Pre-Existing Moisture Trapping

Applying a standard non-breathable liquid coating over a roof that already has minor, undetected ambient moisture in the insulation layer guarantees blistering and delamination under solar heat. Our STPE formulation's natural breathability mitigates solar blistering by letting trapped sub-membrane moisture vent cleanly, preserving the structural integrity of your newly converted asset.

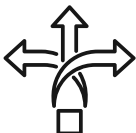
## Technical Performance Matrix



Water Vapor Permeance: Engineered to provide a balanced Perm rating that prevents internal vapor trap while ensuring 100% liquid watertight performance.



Chemical Resistance: Inherently resistant to airborne industrial contaminants, organic alcohols, and mild sanitizing agents common in specialty production facilities.



Elastomeric Memory: Maintains over 200% flexibility to handle the thermal expansion and contraction cycles of commercial structures in variable climates.



Eco-Profile: Solvent-free, low-to-zero VOC, allowing application during active interior building renovations without contaminating air intake systems.