HULK SYSTEMS

HULK STPE® Capillary Membrane Systems for Bridges, Plazas & Road Infrastructure

Advanced Waterproofing & Crack-Bridging Technology for Long-Life Infrastructure

HULK STPE® *(Silane-Terminated Polyether)* technology provides a next-generation solution for waterproofing and protection of bridge decks, plazas, parking structures, podiums, road surfaces, and elevated infrastructure. Combining the flexibility of polyurethane systems with the UV stability and moisture resistance of silicone chemistry, HULK STPE® membranes deliver durable protection in demanding civil environments.

Designed for Critical Infrastructure

Recommended Applications

- Bridge deck waterproofing systems
- Capillary membranes beneath asphalt overlays
- Plaza deck waterproofing
- Podium and parking deck membranes
- Concrete road expansion joint transitions
- Elevated walkways and transit platforms
- Tunnel and retaining wall waterproofing
- Split-slab construction assemblies
- Secondary containment and utility structures

Ideal for Modern Infrastructure Projects

Bridges

Protect reinforced concrete bridge decks from water intrusion and chloride attack while maintaining flexibility under traffic loading and thermal movement.

Plazas & Podiums

Create seamless waterproofing beneath pavers, green roofs, and pedestrian traffic surfaces.

Roads & Transportation

Support waterproofing and transition detailing in roadway systems, elevated structures, and transit infrastructure.

Capillary Membrane System Advantages

For bridge decks and plaza assemblies, HULK STPE® capillary membrane systems help:

- Prevent water migration into concrete structures
- Reduce chloride intrusion and rebar corrosion
- Extend service life of overlays and wearing surfaces
- Improve freeze-thaw durability
- Minimize maintenance cycles

Typical System Build-Up

1. Surface preparation
2. Primer (if required)
3. HULK STPE® liquid-applied membrane
4. Reinforcement at critical transitions and joints
5. Broadcast aggregate or protection layer
6. Asphalt overlay, pavers, concrete topping, or wear course

Why Specify HULK STPE® ?

Superior Crack Bridging
HULK STPE® membranes remain highly elastic over a broad temperature range, helping accommodate concrete movement, thermal cycling, and substrate cracking.

Moisture-Curing Technology
Cures reliably in ambient moisture conditions without blistering common in some traditional polyurethane systems.

UV & Weather Stability
Suitable for exposed applications where long-term UV resistance and weather durability are required.

Excellent Adhesion
Bonds aggressively to:

- Concrete
- Steel
- Existing coatings
- Asphalt interfaces
- Primed masonry substrates

Low VOC / Safer Application

- Low odor
- Reduced solvent exposure
- Suitable for occupied or urban environments
- Supports modern environmental compliance requirements

Fast Return to Service

- Rapid cure profiles help reduce traffic disruptions and accelerate project timelines.

Modern infrastructure demands membranes that combine flexibility, durability, and long-term weather performance. HULK STPE® systems deliver dependable protection where failure is not an option.

Contact us for specifications, testing data, and project support.

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