



BRIDGE | TUNNEL | PAVEMENT

CONSTRUCTION AND PRESERVATION

800-321-7870 | INFO@TRANSPO.COM | TRANSPO.COM

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Founded in 1968, Transpo started with a clear mission: to make roadways safer through engineered, innovative solutions. Today, that same vision drives us forward as we deliver modern infrastructure technologies that elevate safety, durability, and performance across roads and bridges.

From new construction to repair and rehabilitation, Transpo is a trusted partner to agencies and contractors, providing proven expertise and solutions that help maintain, strengthen, and extend the life of critical transportation infrastructure.



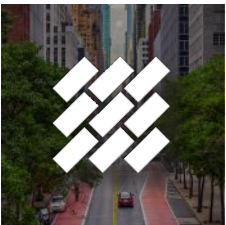
INFRASTRUCTURE

Bridge, tunnel and pavement construction and preservation materials including precast products.



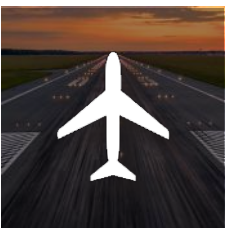
ROAD SAFETY

Tested and proven products to ensure safer, more sustainable roads and highways.



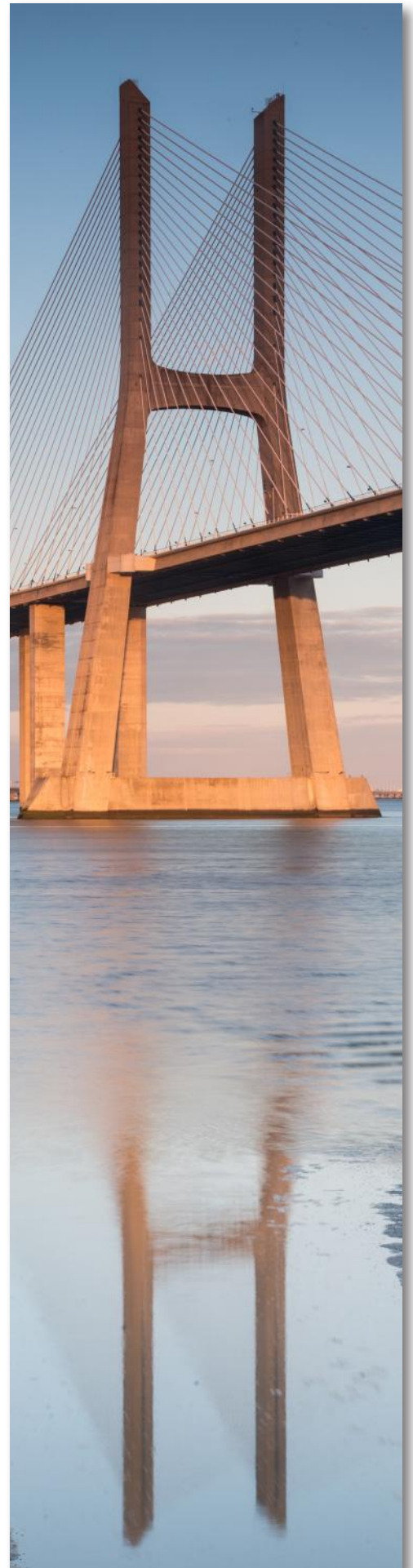
PAVEMENT MARKINGS

Vibrant, durable MMA markings that create bright, long-lasting road pavement safety solutions.



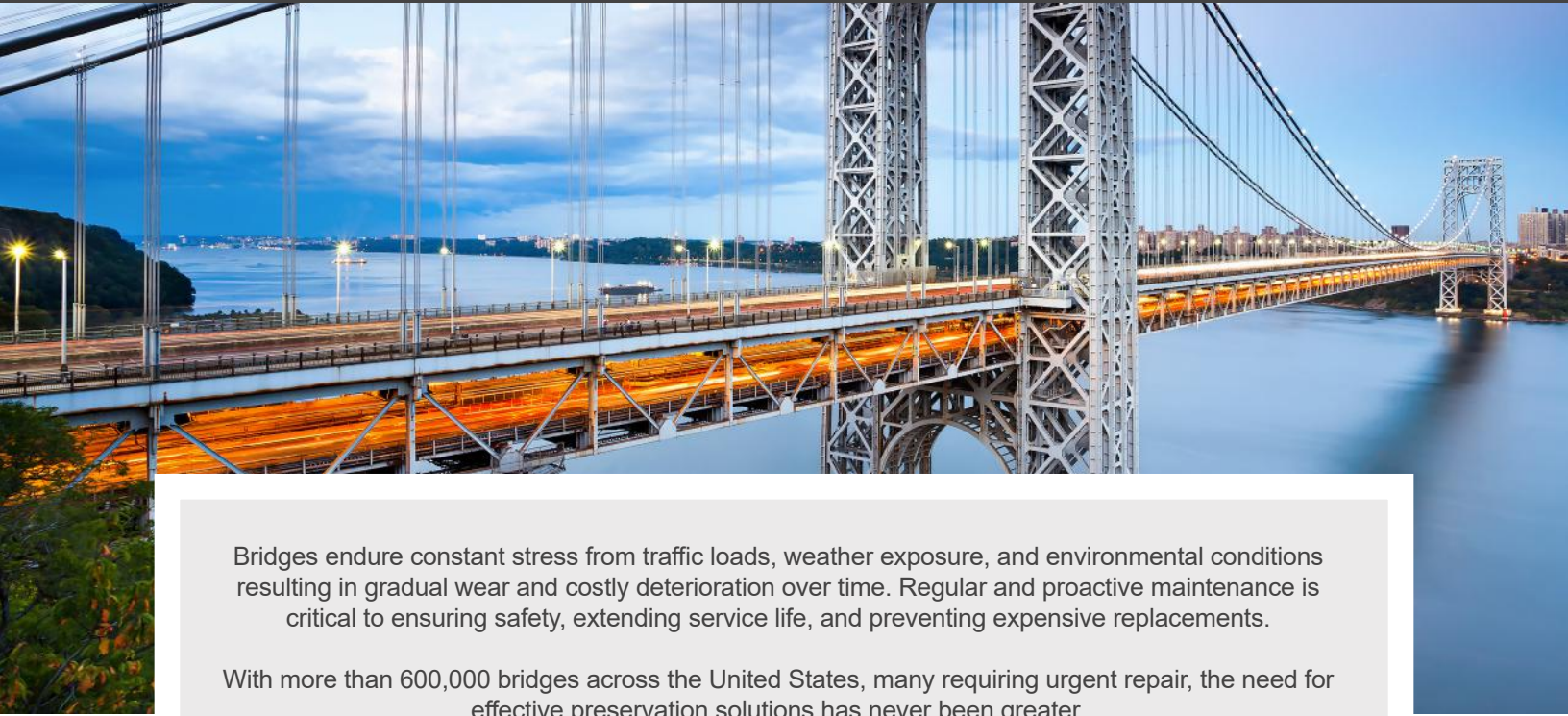
AIRPORTS

Products and materials designed to improve airfield and runway safety and durability.



BRIDGE, TUNNEL & PAVEMENT

CONSTRUCTION AND PRESERVATION



Bridges endure constant stress from traffic loads, weather exposure, and environmental conditions resulting in gradual wear and costly deterioration over time. Regular and proactive maintenance is critical to ensuring safety, extending service life, and preventing expensive replacements.

With more than 600,000 bridges across the United States, many requiring urgent repair, the need for effective preservation solutions has never been greater.

Our high-performance products are engineered to protect both new and aging structures, supporting long-term durability and helping infrastructure achieve an extended service life.

CONSTRUCTION AND LIFE EXTENSION



High-performance materials are essential to protecting and preserving a bridge's integrity, safety, and service life. Without them, bridges can deteriorate rapidly, resulting in costly repairs, traffic disruptions, and increased safety risks.

The best prevention begins with implementing the right safeguards from the start.

REHABILITATION AND PRESERVATION



Most bridges require major repairs approximately every 20 years, making proactive maintenance an ongoing challenge. Proper rehabilitation restores structural integrity, enhances durability, and ensures long-term performance.

Our products are designed to preserve, protect, and strengthen bridges, reducing lifecycle costs while maximizing reliability and performance.

OUR PRODUCTS



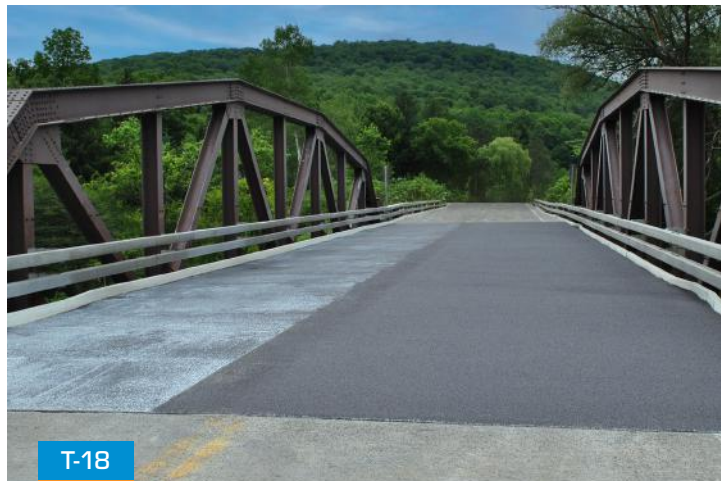
ARMOUR-GUARD®
WATERPROOFING MEMBRANE



T-17
POLYMER CONCRETE



T-70 | T-78
CONCRETE SEALERS



T-18
THIN POLYMER OVERLAY



COLOR-SAFE®
MMA PAVEMENT MARKINGS



VISI-BARRIER®
POLYMER CONCRETE PANELS

DEMONSTRATIONS AND SAMPLES AVAILABLE | EMAIL: INFO@TRANSP0.COM



ARMOUR-GUARD®

WATERPROOFING MEMBRANE

Armour-Guard is a high-performance waterproofing membrane system engineered to protect bridge structures. Using Transpo's advanced Polyurethane Modified Methyl Methacrylate (PUMA) chemistry, it delivers exceptional flexibility, rapid curing, and superior durability, even in extreme climates.

Armour-Guard provides high elongation and dynamic crack-bridging capabilities, along with zero water penetration. These properties are maintained even under the harshest conditions, ensuring complete, long-lasting protection.



Corrosion Protection for Concrete Structures

HIGHWAY BRIDGES | RAIL BRIDGES

- PUMA Chemistry
- Extreme Climate Installations
- Fast Curing
- Hand or Spray Application
- High Elongation
- Zero Water Penetration
- Dynamic Crack Bridging



ROAD AND HIGHWAY BRIDGES



WATERPROOFING MEMBRANE FOR HIGHWAYS

Specifically designed for use on bridges using asphalt overlays, Armour-Guard Waterproofing Membrane for highways, provides heavy-duty waterproofing, corrosion inhibition, and exceptional shear and tensile bond strength to asphalt.

Based on advanced polyurethane methyl methacrylate (PUMA) hybrid polymer technology, Armour-Guard exceeds the performance of traditional MMA

systems as well as conventional epoxy and polyurea resins. The adhesive properties of the polymer ensure strong substrate adhesion and an exceptional chemical bond between layers.

Armour-Guard delivers superior, long-term performance by protecting the substrate from extreme weather, chlorides, deicing salts, chemicals, gasoline, and oils.

HIGHWAY | Armour-Guard® Project Profile



INITIAL CONDITION

Two previous rehabilitations done without waterproofing left this bridge in need of extensive repairs due to water infiltration and deterioration.

These repeated failures demonstrated the importance of using a waterproofing system in bridge rehabilitation projects.

PRODUCT APPLICATION

To address the issue, a waterproofing membrane system was specified.

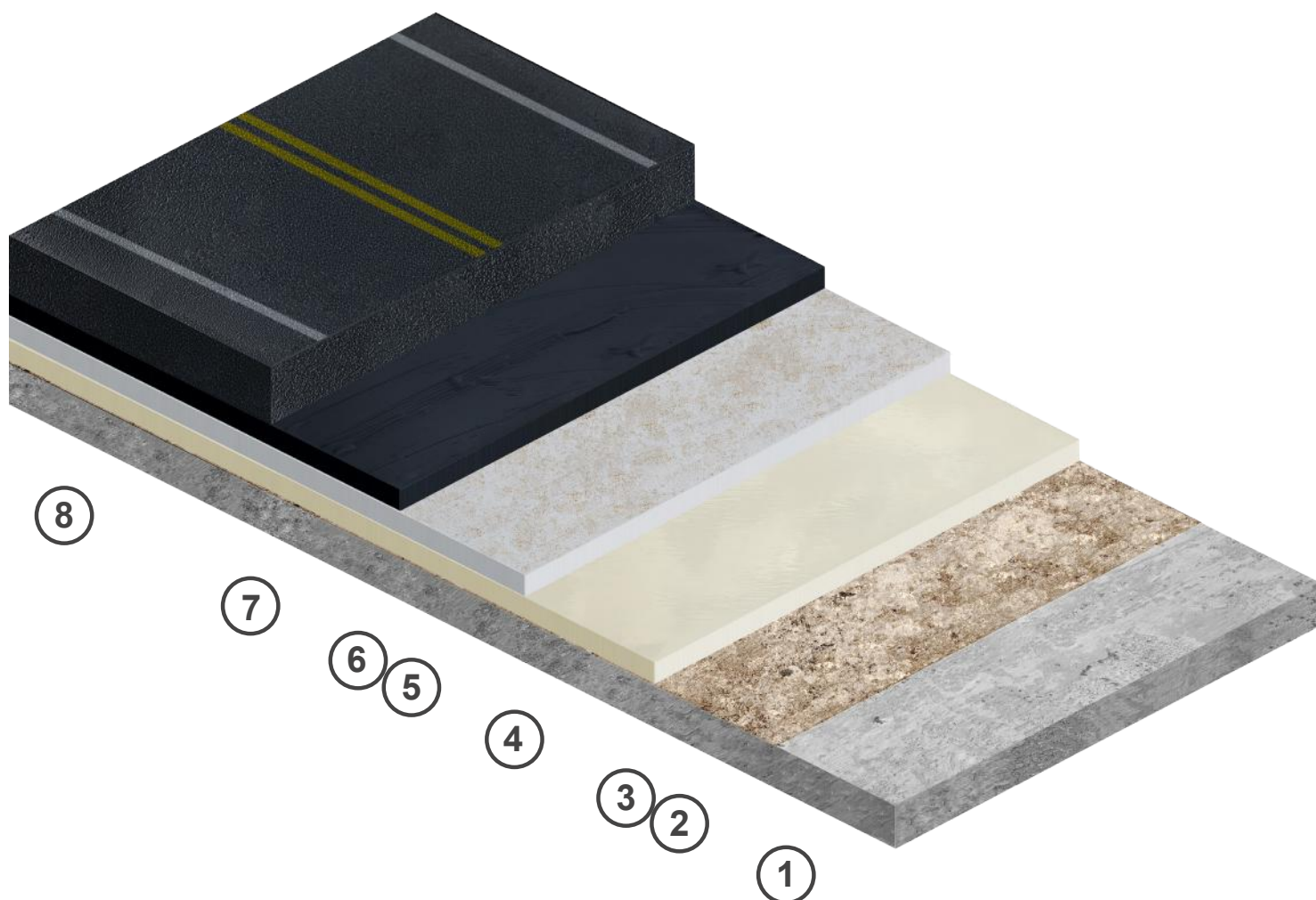
Armour-Guard was chosen for its durability, rapid curing, and unique PUMA resin technology.

PROTECTION APPLIED

The spray-applied membrane provided a seamless, waterproof barrier designed to protect the bridge deck from water intrusion, chlorides, and long-term deterioration.

ROAD AND HIGHWAY BRIDGES

WATERPROOFING AND CORROSION INHIBITION SYSTEM UNDER ASPHALT

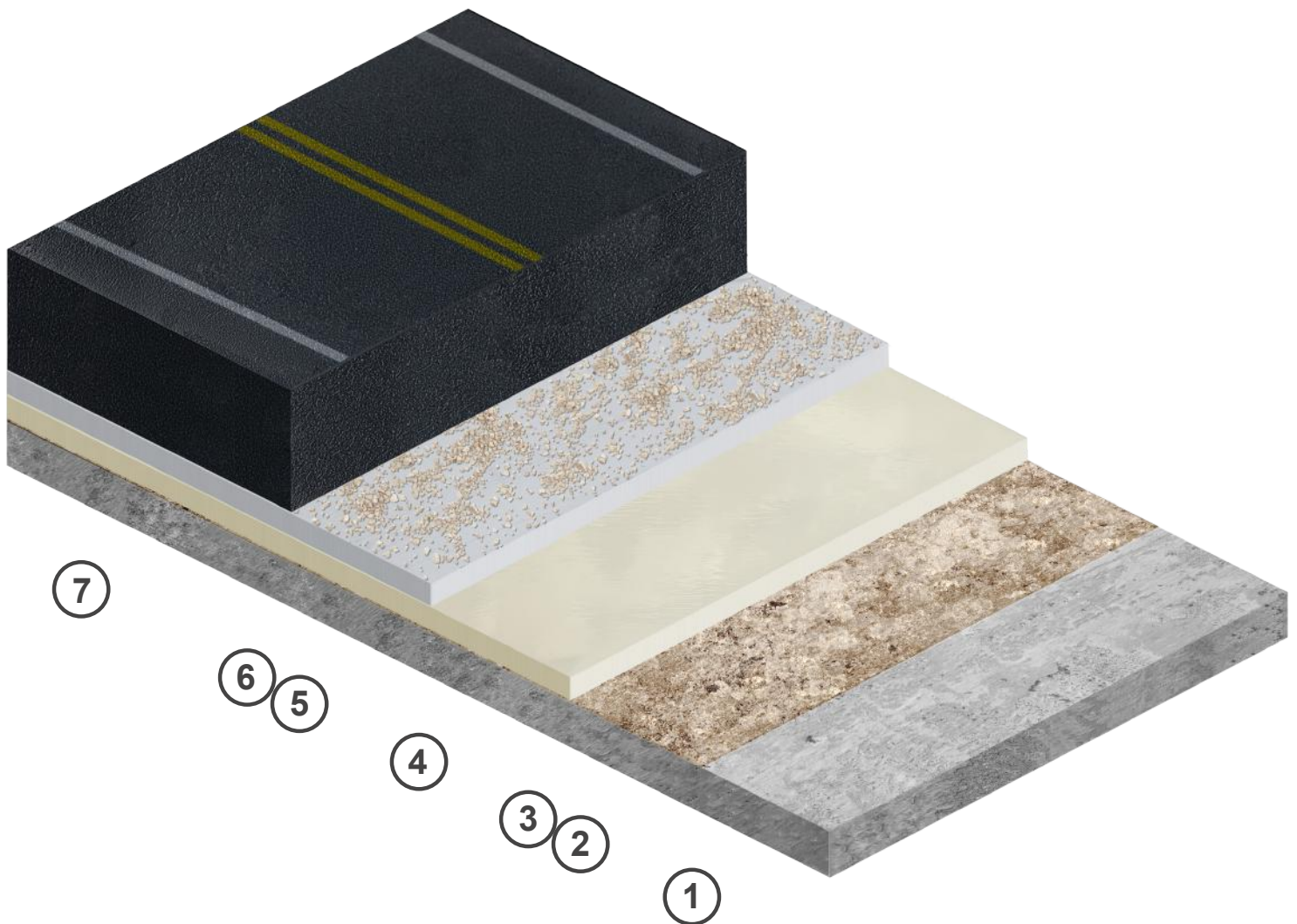


Hot Melt Bitumen Adhesive (HMBA)

For use where the highest shear resistance values are required, such as thin section asphalt and high temperature climates.

SYSTEM LAYERS

- | | |
|---------------------------------|------------------------------------|
| ① Substrate | ⑤ Bond Coat |
| ② Primer | ⑥ Broadcast Aggregate on Bond Coat |
| ③ Broadcast Aggregate on Primer | ⑦ HMBA Tack Coat |
| ④ Membrane | ⑧ Asphalt Overlay |



Methyl Methacrylate Bond Coat (MMA)

For standard applications on road and highway bridges.

SYSTEM LAYERS

- | | |
|---------------------------------|------------------------------------|
| ① Substrate | ⑤ Bond Coat |
| ② Primer | ⑥ Broadcast Aggregate on Bond Coat |
| ③ Broadcast Aggregate on Primer | ⑦ Asphalt Overlay |
| ④ Membrane | |



WATERPROOFING MEMBRANE FOR RAIL BRIDGES

Designed for application directly beneath rail ballast and track, Armour-Guard Waterproofing Membrane provides superior protection for rail bridge superstructures and substructures against water ingress, harmful chemicals, and contamination.

Utilizing advanced Polyurethane Methyl Methacrylate (PUMA) chemistry, Armour-Guard outperforms traditional epoxy and polyurea systems in durability and flexibility.

Rigorously tested and certified to meet AREMA and SNCF standards, it delivers exceptional impact resistance under rail ballast, helping ensure long-term structural integrity.

In addition to its waterproofing capabilities, Armour-Guard functions as a dielectric barrier membrane, providing high electrical insulation values as verified by independent third-party laboratory testing.

RAIL | Armour-Guard® Project Profile



PROJECT REQUIREMENTS

Existing bitumen waterproofing exhibited failures that necessitated removal and rehabilitation of concrete substrate.



SOLUTION APPLIED

After removal is completed, Armour-Guard PUMA membrane first coat is installed on both horizontal and vertical surfaces.

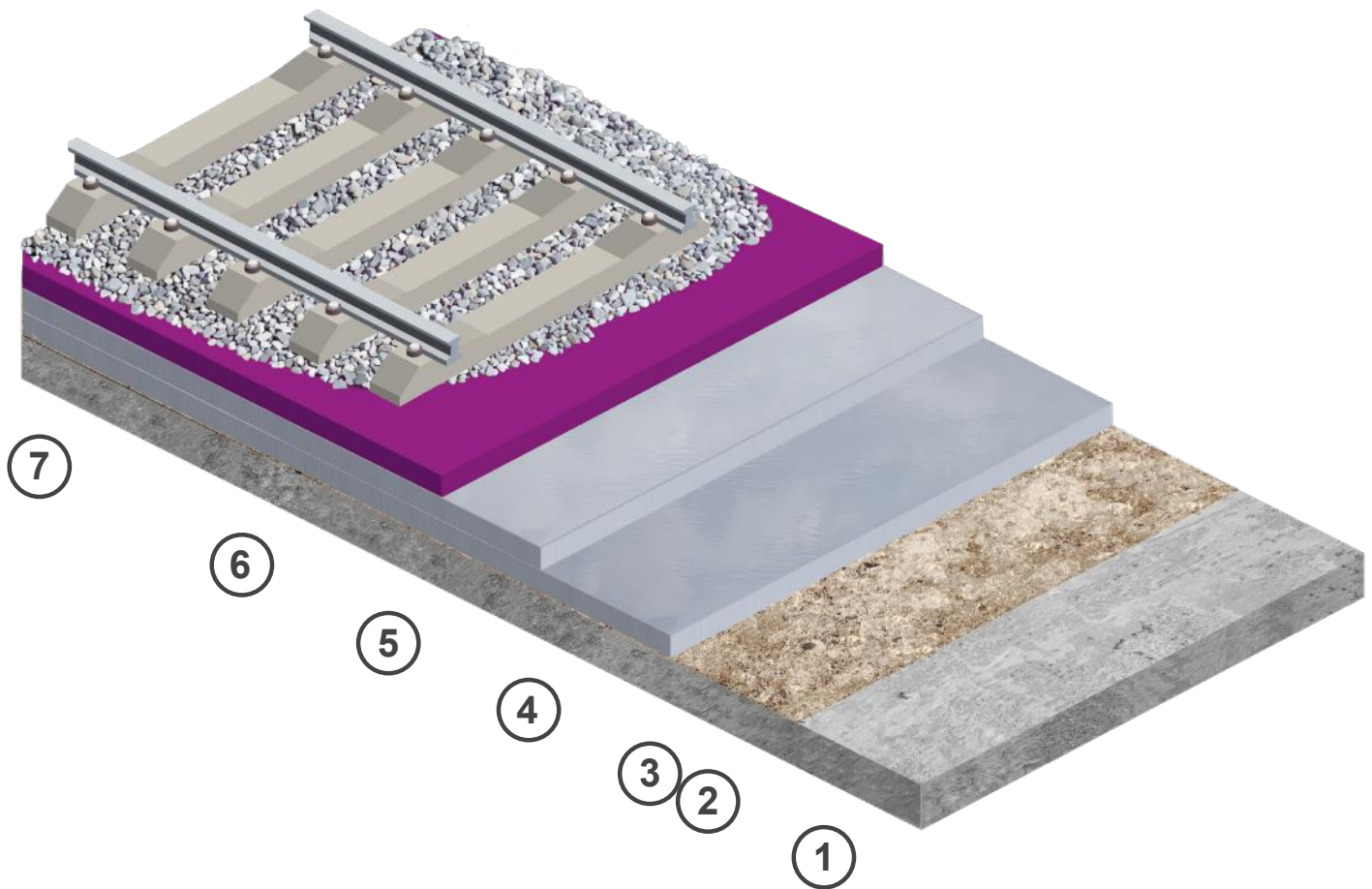


RESULT

After 60 minutes of curing, rail ballast may be loaded with or without ballast mats.

RAIL BRIDGES

WATERPROOFING AND DIELECTRIC MEMBRANE SYSTEM

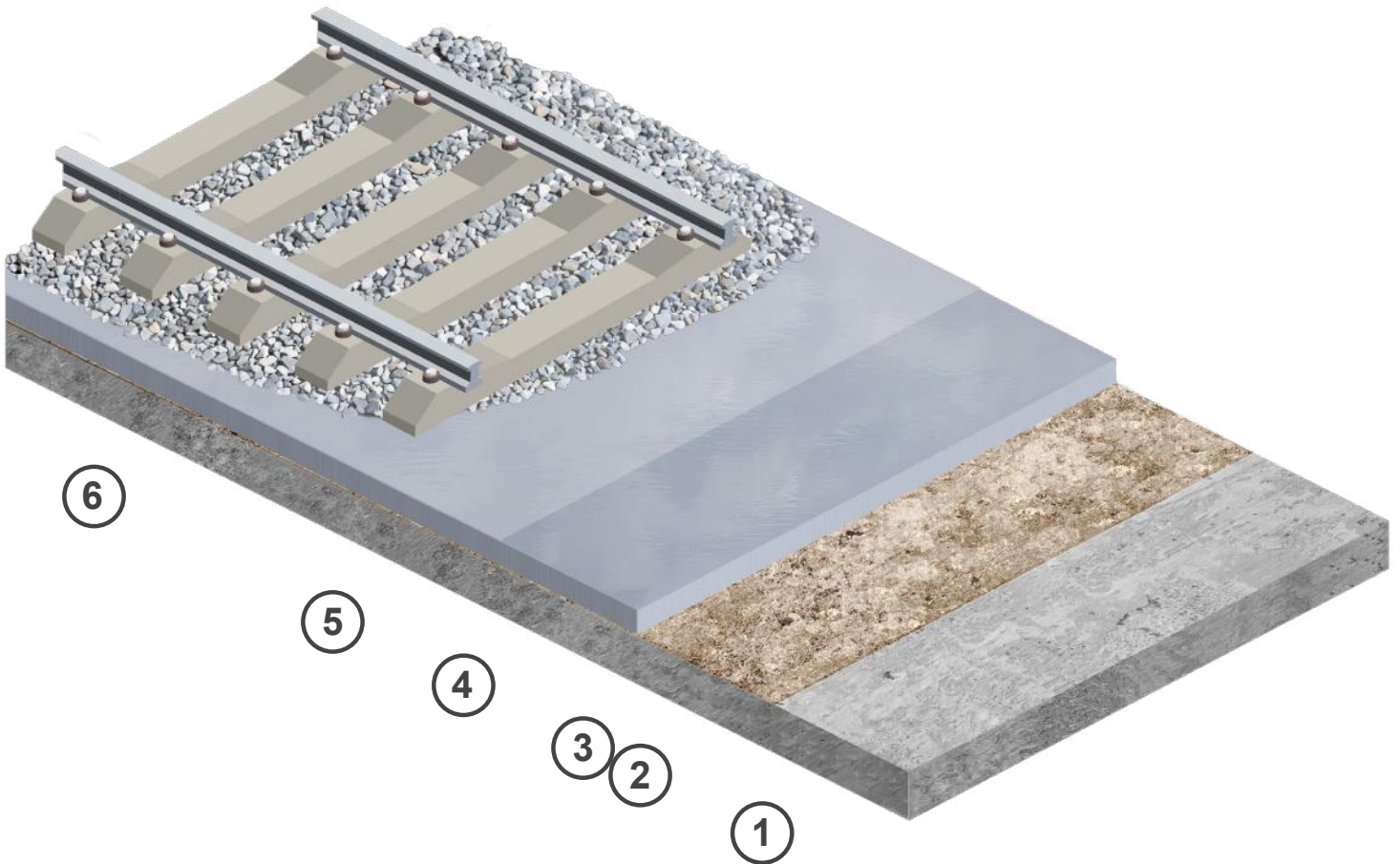


With Ballast Mat

For use where a ballast mat is specified.

SYSTEM LAYERS

- | | |
|---------------------------------|--------------------------|
| ① Substrate | ⑤ Ballast Mat Adhesive |
| ② Primer | ⑥ Rail Ballast Mat |
| ③ Broadcast Aggregate on Primer | ⑦ Ballast and Rail Track |
| ④ Membrane | |



Without Ballast Mat

For standard applications on rail bridges.

SYSTEM LAYERS

- | | |
|---------------------------------|--------------------------|
| ① Substrate | ⑤ Top Coat (Optional) |
| ② Primer | ⑥ Ballast and Rail Track |
| ③ Broadcast Aggregate on Primer | |
| ④ Membrane | |



T-17

POLYMER CONCRETE

T-17 Methyl Methacrylate (MMA) Polymer Concrete is a durable, high-strength and high early strength repair material used to fix cracks, spalls, and chips in concrete surfaces, as well as structural repairs. This pre-packaged, two-component system is easy to mix and apply with no special equipment required and cures in under one hour, allowing a quick return to service.

Partial or full-depth applications can be completed in a single pour, restoring the integrity of concrete structures and extending their service life.



Extending the Life of Concrete Structures

- Wide Temperature Range
- Fast Setting and High Early Strength
- Partial or Full Depth
- Strong Chemical Bond
- Chemical and UV Resistant
- Freeze-Thaw Resistant
- Impermeable and Low Shrinkage
- No Special Tools or Equipment Needed



JOINT HEADER

T-17 is used to repair deteriorated concrete at joints, including spalls, cracks, and edge breakage while preventing water infiltration.



PATCHING

T-17 is suitable for partial or full-depth patch repairs and cures in as little as one hour, minimizing downtime.



BEAM END REPAIRS

T-17 is highly resistant to impact, vibration, and environmental degradation, thus helping to extend the life of beams while reducing maintenance needs.





PIER CAP

T-17 bonds securely to existing concrete, resists cracking, chemical attack, and environmental exposure, extending the service life of bridge piers. T-17 can be mass mixed, conveyed and poured into any size steel or wood formwork.



BEARING PADS

Because of its high early strength and rapid cure time T-17 is an ideal choice for bearing pads when a quick return to service is needed. T-17 can be used in temperatures below 0°C / 32°F.



CLOSURE POURS

T-17 fast-curing, high-strength closure pours restore continuity including link slabs and structural integrity in concrete projects.



T-70 HMWM | T-78 MMA

CONCRETE CRACK SEALERS

Transpo concrete sealers permanently fill and seal crack and pores in bridge structures, restoring concrete strength, preventing deterioration and reducing chloride permeability.

Formulated for deep penetration and strong bonding, they are easy to apply with minimal labor and no special equipment. Multiple formulations are available to meet specific project needs.

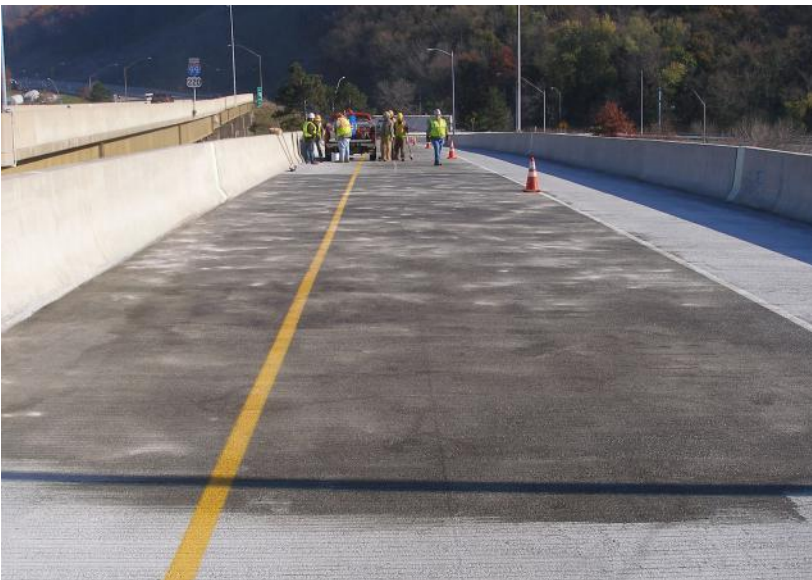
Easy Single Application
Very Low Viscosity

Deep Crack Penetration
Fill and Bonds Cracks



T-70 HMWM

Low-viscosity formula fully penetrates cracks while sealing porosity. T-70's lower modulus and greater tensile elongation allow it to accommodate crack movement and thermal stresses.



T-78 MMA

Specially formulated with very low viscosity, T-78 results in deep penetration into cracks. Rapid setting even at low temperatures.



T-70 HMWM Vertical

The thixotropic formula stays in place on vertical surfaces while penetrating cracks to depths of over one inch. T-70 Vertical is an ideal base coat for aesthetic coatings.



T-18

MMA THIN POLYMER OVERLAY

T-18 Methyl Methacrylate (MMA) Polymer Overlay is a fast-curing thin slurry overlay. It is a pre-packaged system ideal for concrete and steel bridge decks and other concrete structures. T-18 is comprised of a blended aggregate filler that forms a slurry when mixed with the polymer resin and broadcast with a coarse wearing aggregate for vehicular and pedestrian traffic.

Easy Application
Skid Resistant

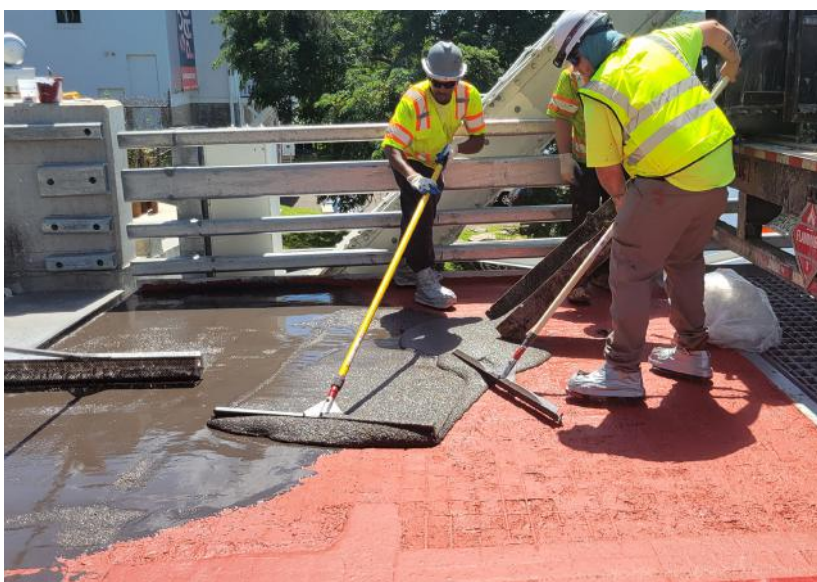
Wide Application Temperature Range
Steel and Concrete Compatible
Chemical Resistant

Fast Cure
UV Resistant



PREPARATION AND PRIMING

Surface was initially prepared ensuring no dirt, grease, rust and other contaminants were present that would interfere with the proper adhesion of the overlay system.



SLURRY APPLICATION

After T-18 primer application, T-18 resin is prepared according to the specifications.

The addition of T-18 powder component creates a uniform consistency and thickness and is applied immediately.



BROADCAST AGGREGATE & TOPCOAT

Broadcast aggregate is applied to the T-18 resin slurry which is then allowed to cure.

Excess broadcast aggregate is then removed by vacuum and compressed air before the top coat is applied.



COLOR-SAFE®

MMA PAVEMENT MARKINGS

Color-Safe® MMA Pavement Markings deliver vibrant, long-lasting performance for special use lanes. More durable than thermoplastic and traffic paint, Color-Safe can be applied in cold weather, helping extend the marking season and enhance safety for cities and communities.

Fast Cure
UV Stable Marking
Low Life Cycle Cost

Excellent Color Retention
Custom and Standard Colors
Wide Application Temperature Range
Apply on Multiple Surfaces

High Visibility
Skid-Resistant
Easy Application

BIKE AND BUS LANES

Color-Safe delineates bus-only lanes from general traffic and reduces unauthorized lane use and conflicts with other vehicles.



CROSSWALKS & PEDESTRIAN AREAS

Vibrant crosswalk colors alert drivers and help significantly reduce the number of pedestrians injured due to vehicular accidents at crossings.



AIRFIELD MARKINGS

Color-Safe MMA conforms to FAA regulations for taxiway and runway markings. It comes in standard color options as well as custom colors, and is suitable for both airfield and landside applications.





VISI-BARRIER®

PRECAST POLYMER PANELS

Visi-Barrier is a highly visible traffic barrier with FHWA approval designed for both new and retrofit projects. Visi-Barrier acts as a stay-in-place form with simple bolt-thru connections, offering a year-round, all weather, lightweight, and sustainable solution for new and aging bridge parapets, medians, ramp barriers, and tunnel walls.

New Projects
Retrofit Projects
Custom-Made Design

Lightweight - All Weather Design
Simple Connections
Stay-In-Place Formwork

High Visibility
Gel Coat Seal
Reflective Bead Stripe



PREPARE

Existing panels were removed and the concrete substrate was prepared to ensure proper placement and minimal disruption to traffic.



INSTALL

Precast polymer panels are set into place, carefully aligning and securing them using simple bolt-thru connections with the stay-in-place formwork.



FINAL STAGES

The completed Visi-Barrier will repel dirt, road salts, and other contaminants, making it a highly visible and long-lasting barrier.



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