IMPERMITEK
Advanced Seamless Technologies

CARGO TRAILER ROOF & INTERIOR Case Study

Project Type:
Roof & Interior Restoration

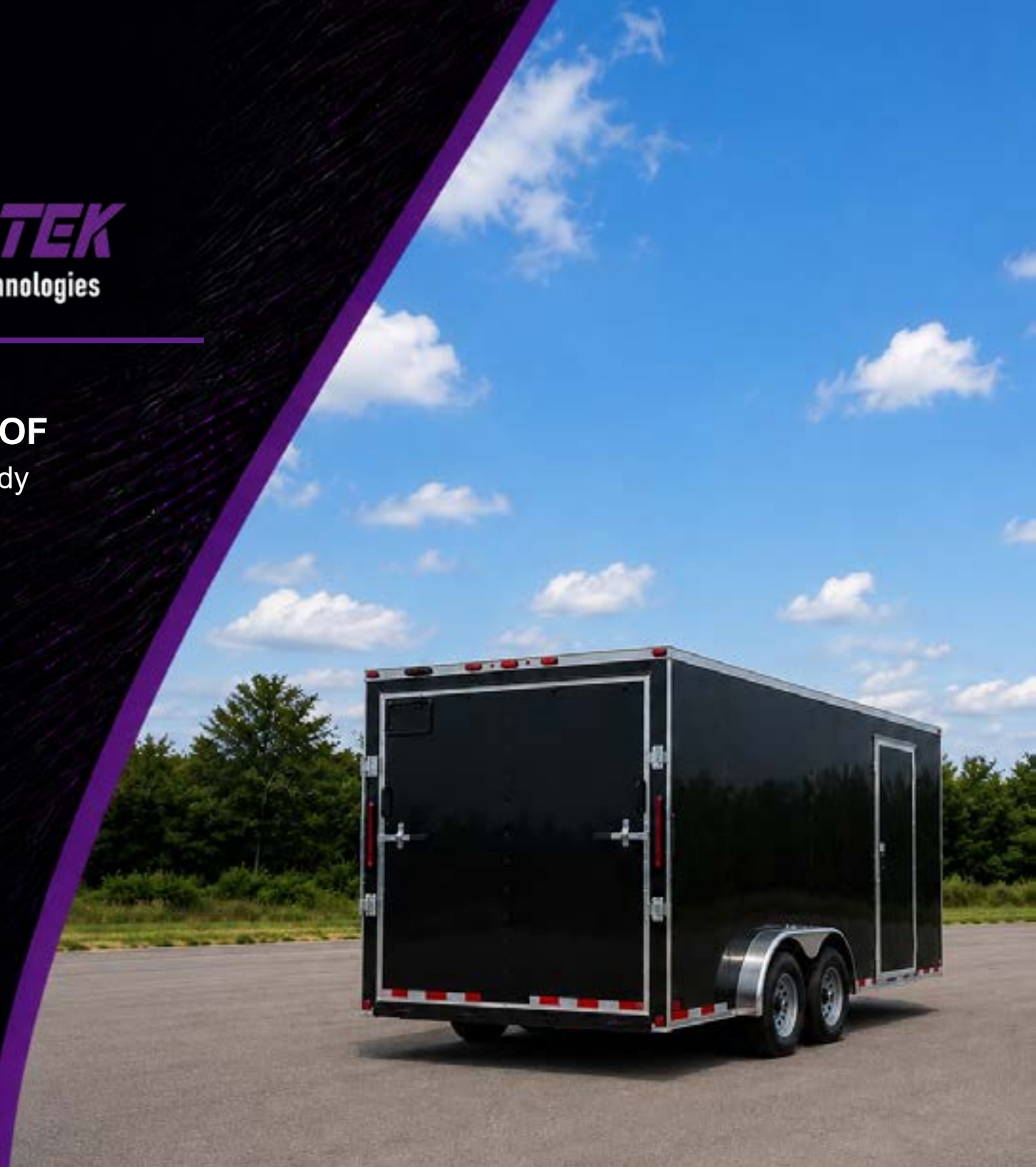
System Installed:
IR-26 Polymer Resin

Project Size:
800 Square Feet

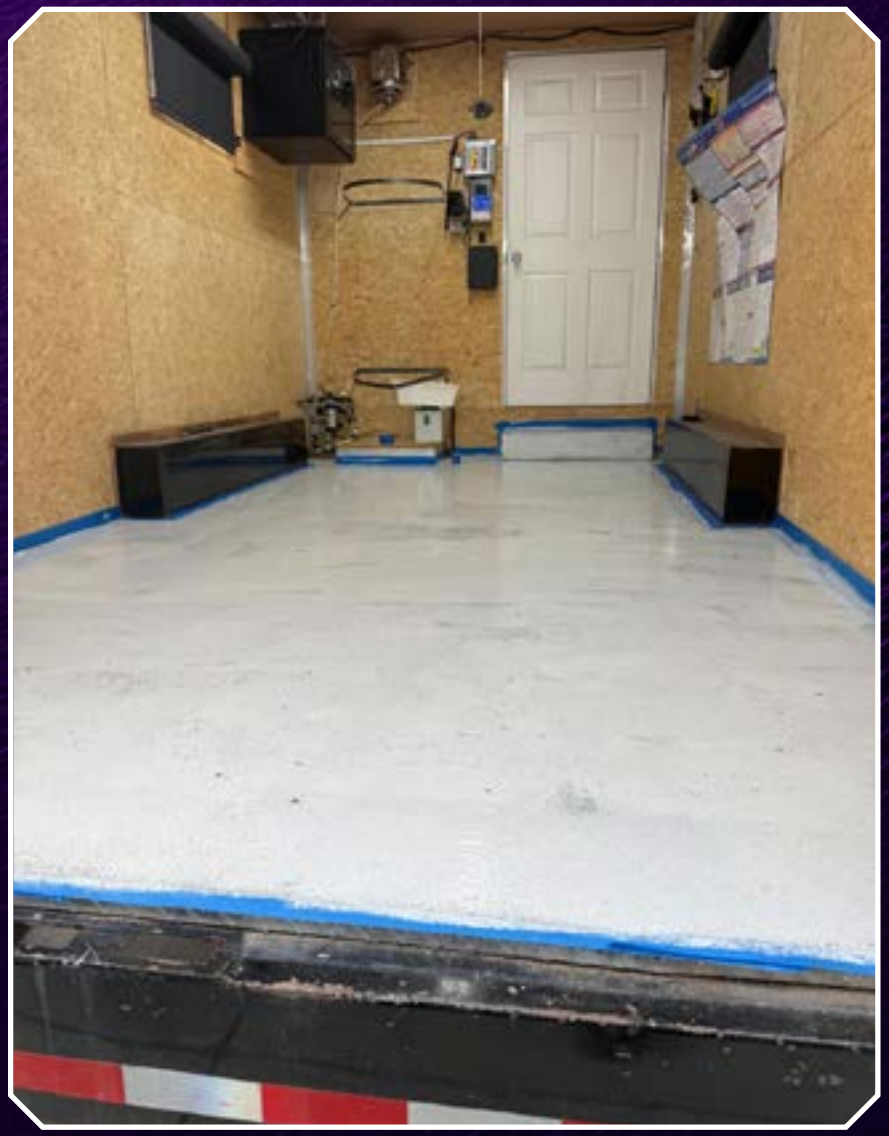
Sector:
Commercial

Location:
Fort Collins, Colorado

Authorized Installer:
Meyer Innovations



PROJECT INTRODUCTION



A heavily used cargo utility trailer in Fort Collins, Colorado required a complete roof and interior refurbishment after years of service had begun to take a toll on the existing finishes. The previous roof system was deteriorating and had started to leak, while the interior surfaces were showing significant wear from regular hauling, exposure to dirt, moisture, and the demanding conditions associated with day-to-day commercial use.

The owner needed more than a short-term repair. The goal was to restore the trailer with a durable, low-maintenance solution that could stop water intrusion, protect the interior, simplify cleaning, and return the asset to service quickly. Impermitek Authorized Contractor Meyer Innovations was selected to complete the refurbishment using the IR-26 Polymer Resin System across both the roof and interior areas.

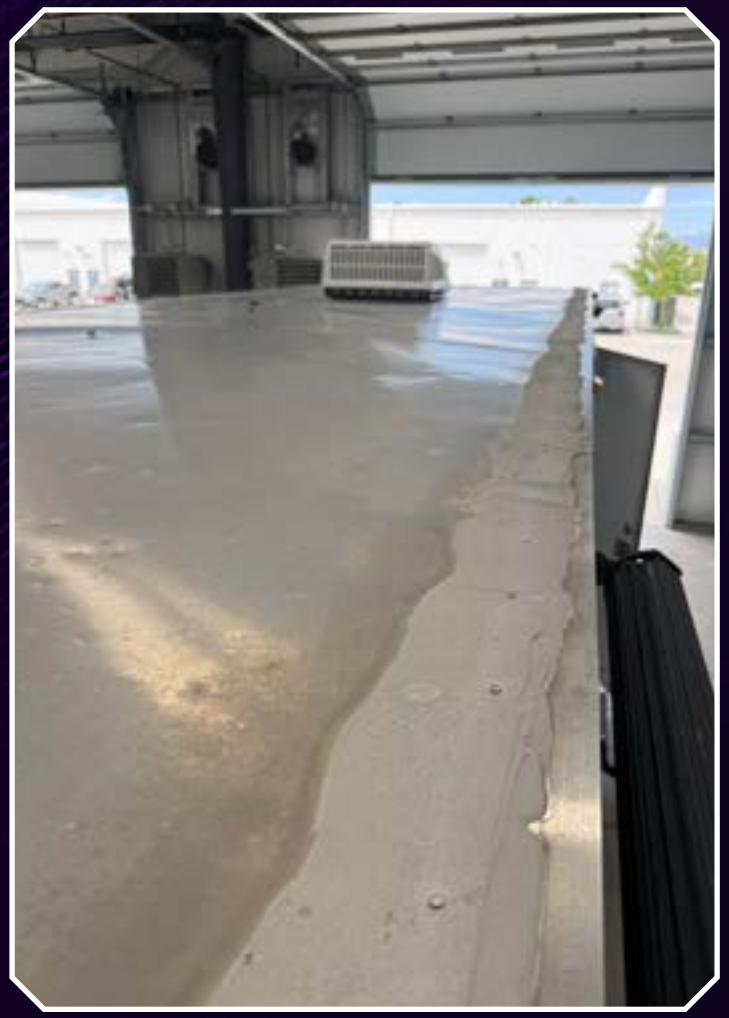
IR-26 was well suited to the project because its cold-applied, liquid technology forms a fully bonded, seamless membrane that can conform closely to transitions and detailed areas without relying on a network of sheet-membrane laps, seams, or welds. Combined with continuous polyester reinforcement, the system provides a robust protective layer designed for long-term waterproofing performance while accommodating normal substrate movement.

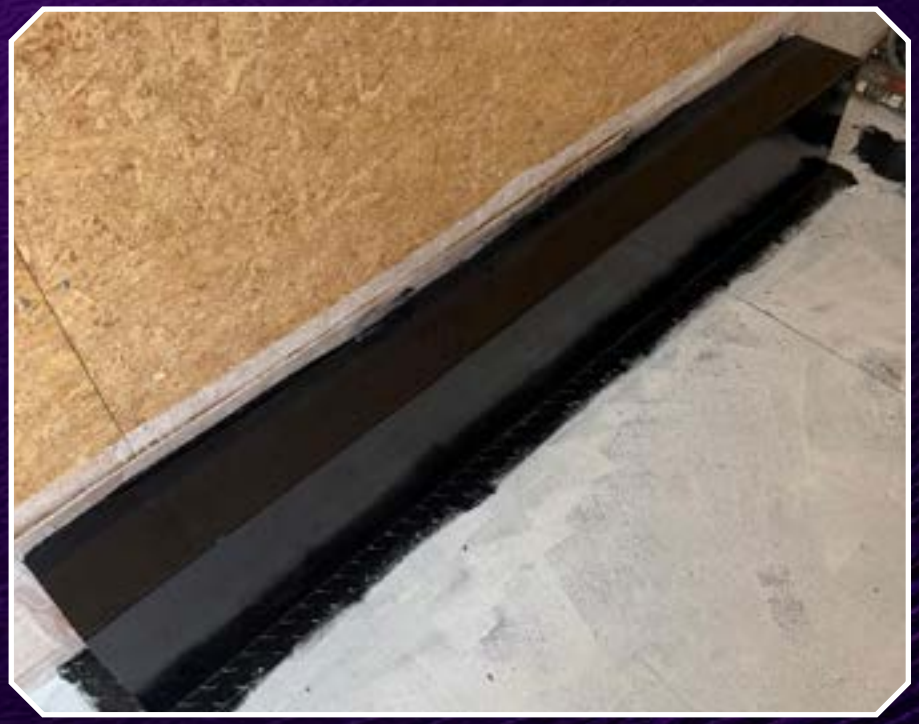
PROJECT CHALLENGES

The most urgent issue was the leaking roof. The existing system had reached the point where water was entering the trailer, creating the risk of damage to the interior and anything being transported inside. The owner needed the water intrusion stopped quickly and reliably so the trailer could return to active hauling service without an extended period of downtime.

Speed of installation was therefore a major project requirement. This trailer was a working commercial asset, and every day out of service affected its usefulness. The refurbishment needed a system that could be installed efficiently while still delivering the durability expected from a long-term roof restoration and protective interior finish.

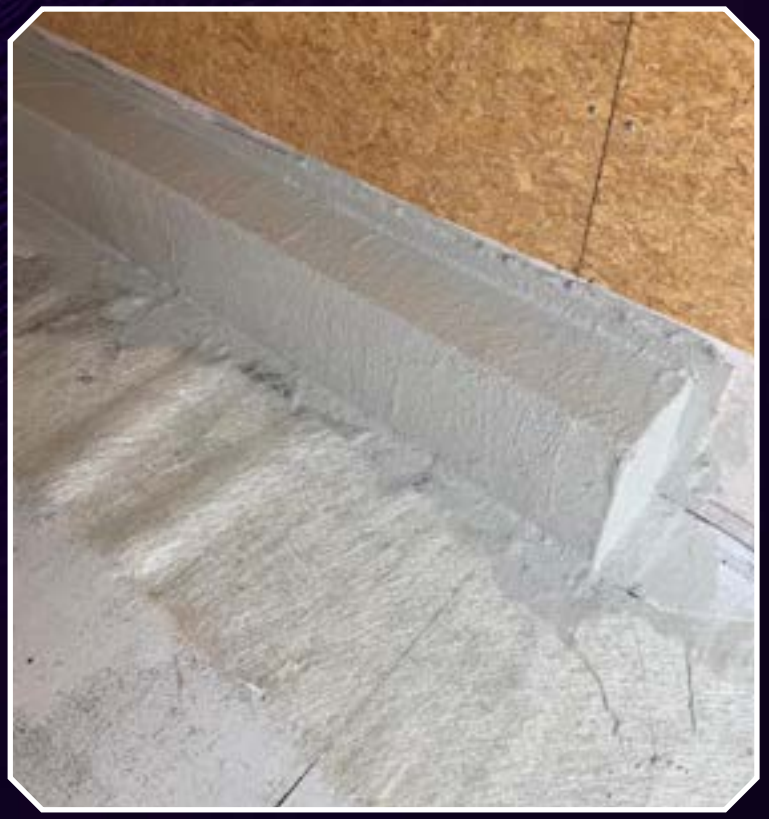
The interior presented a different but equally important challenge. Regular loading and unloading had left the existing surfaces worn and difficult to maintain.





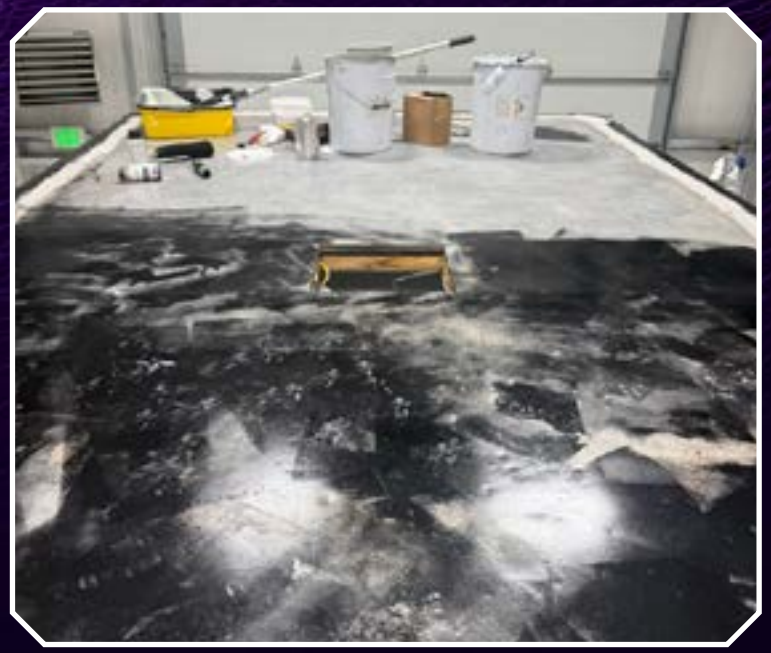
Movement was another key consideration. Unlike a stationary building, a cargo trailer experiences repeated movement and vibration during transportation. The restoration therefore benefited from a reinforced, fully bonded liquid-applied system that could create continuity across the substrate and details while accommodating normal movement in service.

Dirt, moisture, debris, and the elements brought into the trailer during use meant the owner needed a protective finish capable of standing up to demanding service conditions while also creating a surface that could be cleaned more easily.



THE SOLUTION

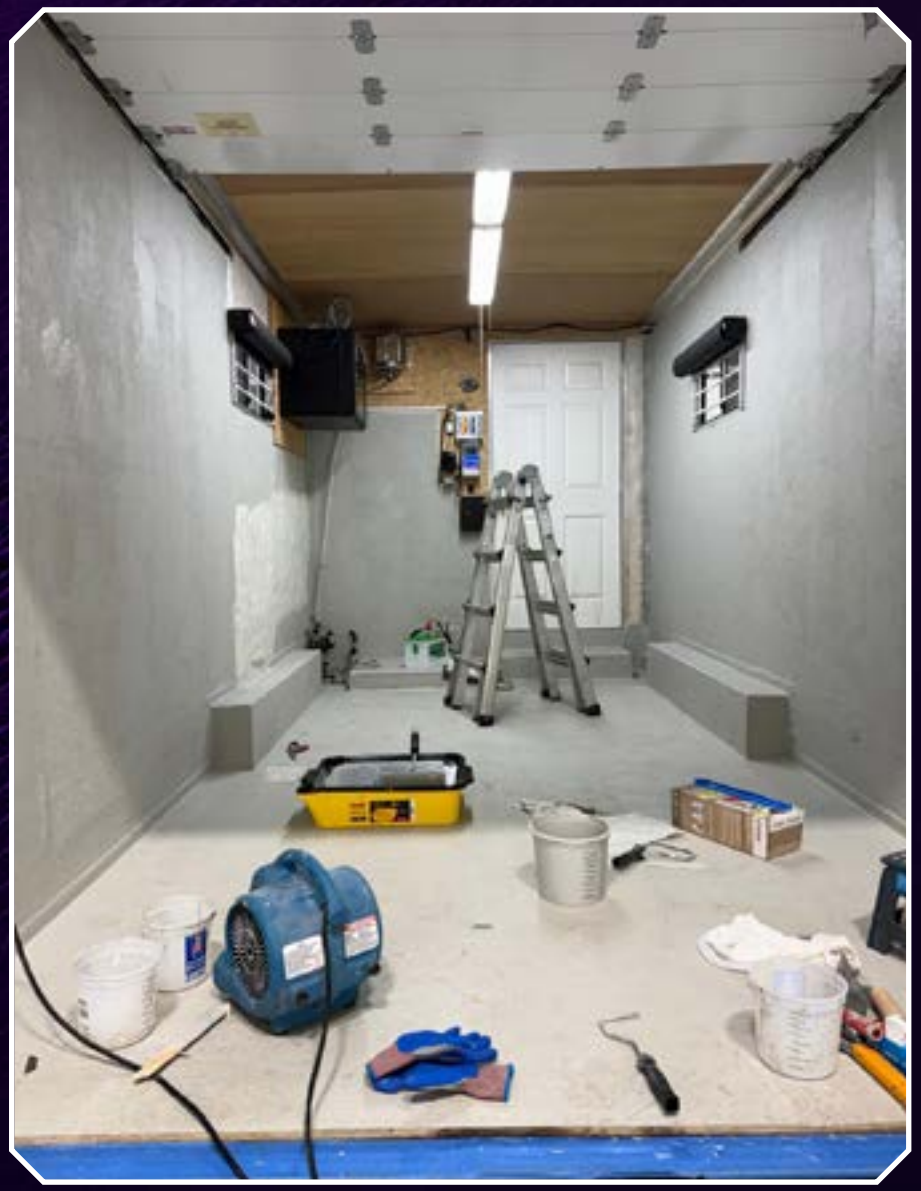
Meyer Innovations began with the exterior roof. The existing metal surface was thoroughly prepared, treated, and washed to create a clean, sound substrate for the new waterproofing assembly. A metal detail primer was then applied to promote adhesion to the prepared metal surface and establish the foundation for the IR-26 application.

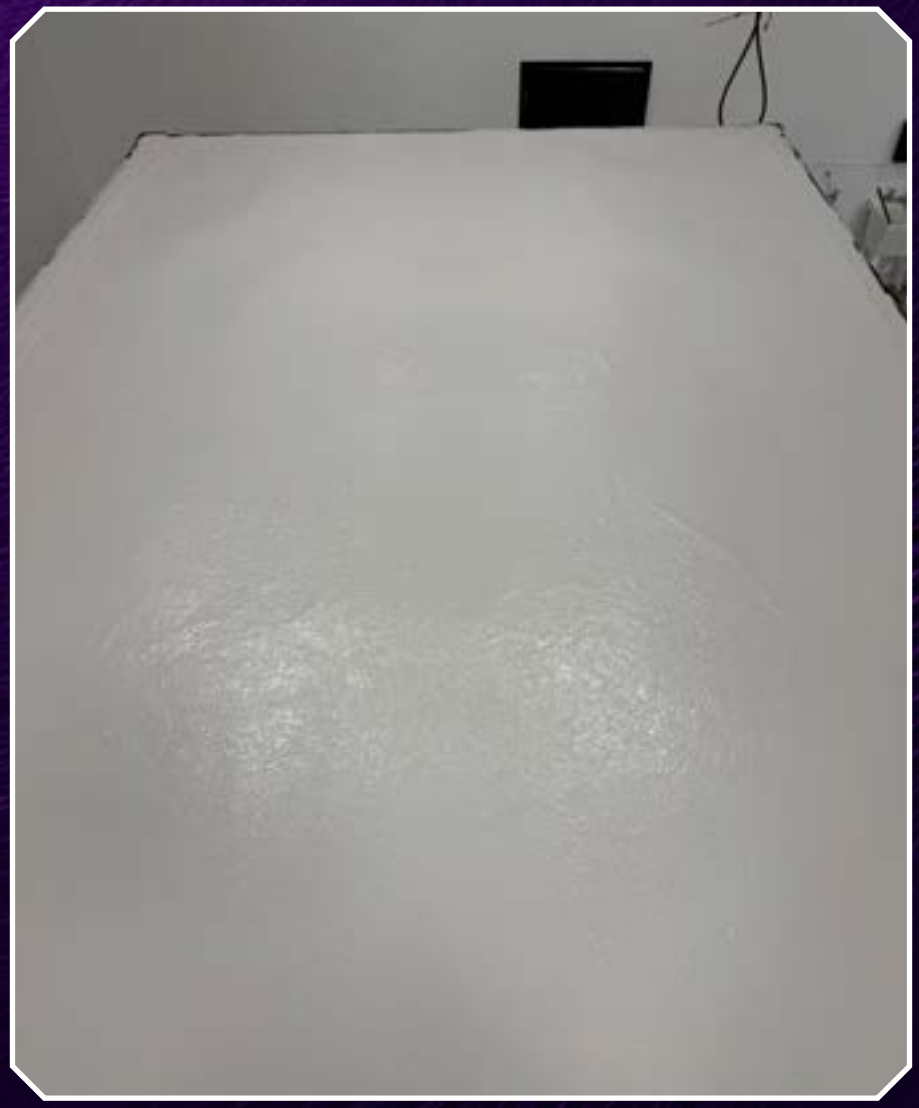


The roof received the full IR-26 waterproofing system with continuous polyester reinforcement. Because the membrane is liquid-applied and formed in place, it could be installed continuously across the roof surface and integrated around the required transitions and details. The reinforcement adds dimensional stability and helps the finished membrane accommodate normal structural movement - an important advantage for a trailer exposed to vibration, flexing, changing weather conditions, and frequent use. The cold-applied installation also eliminated the need for hot works, while the system's fast-installation characteristics helped support the owner's priority of minimizing downtime.

Work then moved to the interior. The existing interior finishes were stripped back, damaged plywood was replaced, and the substrate was carefully prepared for the new protective system. Impermitek General Primer was applied to promote adhesion, after which the more complex vertical and perimeter details were completed first. The field areas were then installed and tied continuously into the completed details to create an integrated IR-26 protective finish throughout the interior.

The completed refurbishment addressed the trailer's key performance requirements in one coordinated project. Inside, the new IR-26 finish created a hard-wearing, low-maintenance surface that is easier to keep clean and better suited to the demands of regular cargo use.





The roof received a seamless, reinforced waterproofing system designed to stop water intrusion and provide durable long-term protection.

By combining careful substrate preparation, appropriate primers, reinforced liquid-applied technology, and experienced installation by Meyer Innovations, the project transformed a deteriorating cargo trailer into a protected, service-ready asset. The result demonstrates the versatility of the Impermitek IR-26 Polymer Resin System beyond conventional building applications - delivering seamless waterproofing and durable surface protection where speed, reliability, movement accommodation, and long-term performance all matter.