

## CASE STUDY:

### RV and Trailer Roof Repair



**Category:** Elastomeric Coating for Waterproofing

**Customer:** San Diego RV Center (El Cajon, CA)

**Project:** Repair and rejuvenate aged roofs of recreational vehicles.

**Primer:** Primer 161

**Top Coat:** Rhino Eco-Coat™ (Polyurea)



The recreational vehicle (RV) industry in the United States has been enjoying solid growth as baby-boomers swell the quantity of potential buyers. Rapid growth has led to faster production schedules for RV, campers, Fifth Wheels and trailers. In the case of some manufacturers, fewer resources are being applied to ensure long term waterproofing of the approximately 200 sq. ft roof. After a few years of exposure to sunlight and the elements, many owners reported leaks and internal damage to their insurance companies.



## Problem:

Every month, private owners come to San Diego RV Center with leaking rubber and fiberglass roofs. Traditional repair materials like Dicor rubber or sheet plastics require renewed UV protection every two years and generally fail or have an undesirable appearance within eight years.



Primer 161



Rhino Eco-Coat (Polyurea)

## Solution:

The owners of San Diego RV Center heard about the Rhino Linings reputation with sealing and protecting pick-up trucks from corrosion and degradation. Rhino seemed to be a natural fit.

Rhino Linings offered San Diego RV Center Rhino Eco-Coat™, a spray applied 100% solids hybrid polyurea. Rhino Eco-Coat contains UV stabilizers and leafing aluminum pigment that forms a long term barrier against water intrusion and offers a high reflectivity index.

In the production process, the existing and failing rubber roof of the vehicle is stripped down to the existing plywood roof. Seams and large gaps are then filled while any previous adhesives on the wood are removed and sanded down. After all the wood is sanded, the entire area is primed with Rhino® 161 primer and then sprayed with Rhino Eco-Coat at varied thicknesses from 1/16" to 1/8" (1.5 – 3.0 mm) depending on area. The new monolithic polyurea coating forms a tight seal around all the protrusions, gaps and bolts preventing water leakage. The desirable silver aluminum like finish improves energy efficiency and prevents degradation due to UV sunlight.

From start to finish, San Diego RV Center can have an owners RV repaired and ready for the road within three days.

Rhino Eco-Coat quickly and easily solves the problems of rejuvenating aged recreational vehicle roofs. It cost significantly less than replacing the previous rubber or vehicle roof every few years. Best of all, the Rhino Eco-Coat is an aromatic polyurea and will undergo a slight gloss change when exposed to UV light, it will not chalk, crack or degrade with normal service.



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