



Kynar Aquatec® based Kymax® coating was used for total solar reflectance in a roofing job for a large-scale steel facility in Spokane Valley, WA

The Broadway Truck Repair Center is a 60,000 square foot corrugated steel facility located in Spokane Valley, WA. This project included roofing repair and recoating of the open-door depot. United Coatings of Spokane Valley, WA supplied the Roof Mate™ coating for waterproofing and KYMAX® coating (Kynar Aquatec® emulsion-based coating) for Total Solar Reflectance for this job. Seams, fasteners, and equipment were detailed out with Roof Mate™ and Roof Mate™ Butter Grade to waterproof.

The coating system included: one coat of metal primer at 8 wet mils and one coat of white KYMAX® (with an initial Total Solar Reflectance value of 0.87 as reported by CRRC) at 8 wet mils were used. As one worker stated, "The section of the building with the repaired cool roof was significantly cooler than the unrepaired section."

Cool Roofing

More than \$40 billion is spent annually in the United States on electricity to cool buildings, which is about a sixth of the total electricity generated. And, these energy costs are rising in hot climate regions. White cool roofs have been proven to reflect the sun's energy and reduce the roof surface temperature by up to 100°F. This reduction in temperature reduces the heat transferred into the building and lowers the electrical demand for cooling.

Kynar Aquatec® based coatings have been reported by CRRC (Cool Roof Rating Council) to have initial Total Solar Reflectance and Emissivity values greater than 0.85 each. Furthermore, additional south Florida exposure studies suggest that these coatings are expected to retain values over 0.80 for more than seven years. Conventional


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Project:
Broadway Truck Repair Center
Spokane Valley, WA

Coating:
Kymax®

Coating Supplier:
Quest Construction Products,
Home of United Coatings
Phoenix, Arizona



elastomeric acrylic based roof coatings drop to 0.55 Total Solar Reflectance in less than two years. These new fluoropolymer coatings will revolutionize the roof coating market by providing long-term energy savings that no conventional coating can achieve.

Kynar Aquatec®: A Water-Based Fluoropolymer Platform

Kynar Aquatec® is a new innovative platform of emulsions, which are used by paint formulators to make premium

weatherable water-based coatings. Coatings formulated with these emulsions can provide the durability and performance of traditional Kynar 500® based coatings. They can easily be applied to a variety of substrates, including metals, plastics, wood, concrete, textiles, and previously painted surfaces.

Now the extreme weatherability of a Kynar 500® based coating is available in a VOC-compliant, field- or factory-

applied, ambient air-dry system. Additional benefits include tremendous resistance to dirt pick-up, outstanding water repellency, and high initial and long-term Total Solar Reflectance and Emissivity.

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