

RESIDENTIAL METAL ROOFING CASE STUDY



KYNAR 500[®] BASED METAL COATINGS

Metal has rapidly become the material of choice for residential roofing and homebuilders are using it in new and bold ways. Metal is durable, energy saving, fire resistant, maintains its beauty far longer than other roofing materials and increases real estate value. Still, metal must be protected from weathering by a coating that will preserve its rich and vibrant appearance for many years. Premier metal finishes are based on KYNAR 500[®] PVDF resins from Arkema Inc. Since 1965, KYNAR 500[®] resin-based metal coatings have provided billions of square feet of protection against weathering, aging, and pollution on commercial, industrial, institutional, and residential buildings.

RESIDENTIAL METAL ROOFING BASED ON KYNAR 500 PVDF RESINS

KYNAR 500[®] is a fluoropolymer (polyvinylidene fluoride) used by leading coating formulators as the basic vehicle in producing premium finishes for aluminum and galvanized steel. The liquid coating systems, based on KYNAR 500[®] fluoropolymer, are factory-applied and oven-fused to the properly prepared substrates. These premium finishes exhibit excellent color durability, appearance, flexibility, abrasion and fire resistance. Roofing components may also be post-formed from coil-coated stock into many exciting shapes and sizes such as the standing seam roofing utilized in the projects pictured in this case study.



Coating Applicator
Metal Supplier:
ENGLERT Inc., Perth Amboy, NJ

Roof Installed By:
JEL, Inc. doing business as
Iron Horse Standing
Seam Roofing Company
Tunbridge, VT.

Coating Supplier: BASF



PROJECT PROFILE – HOMES IN NEW ENGLAND

Metal roofing coated with a KYNAR 500® PVDF-based finish provides years of service with virtually no maintenance and has been utilized in a wide range of applications, from log cabins and barn additions to large homes, multi-family condominiums and large modern estates. KYNAR 500® based metal roofing has been widely used in severe weather areas to reduce snow loading while providing long-term durability and color retention. ENGLERT Inc. of Perth Amboy, NJ applied the Permacolor finish based on KYNAR 500® PVDF resin to metal roofing fabricated onsite by JEI, Inc. doing business as Iron Horse Standing Seam Roofing. As a quality metal roofing contractor, the owner of Iron Horse Standing Seam Roofing Company, John Kinnarney, claims that he “will only specify a finish based on KYNAR 500® resin on roofing projects that he installs”. BASF’s ULTRA-Cool coatings, based on KYNAR 500® PVDF resin, are used and meet Energy Star specifications for cool, energy-saving roofs. The coating system reflects heat away from the building while increasing the life expectancy of the roof by reducing the expansion and contraction that decreases structural integrity and eliminates oil canning of the metal surface.

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See MSDS for Health & Safety Considerations

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