

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, saves energy, is fire resistant, increases real estate value, and hold its beauty far longer than other roofing materials. Metal must still be protected from weathering by a coating that will keep the appearance looking rich and vibrant 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 ovenfused to the properly prepared substrates. These premium finishes exhibit excellent color durability, appearance, flexibility, abrasion and fire resistance. Roofing components may be post-formed from coil-coated stock after fabrication.

Project:
Private Residence
Bear Mountain, Killington, VT

Owner:
Gordon Family

Contractor:
Paul Biebel, Windsor, VT

Size of Roof:
10,000 sq. ft.

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

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

Coating Supplier: BASF
Built: 2004

PROJECT PROFILE – PRIVATE RESIDENCE, VERMONT



This private residence located atop Bear Mountain in Killington, VT was built using a metal roof coated with a Kynar 500® PVDF resin based finish. Metal roofing was chosen to enhance the style and appeal of the home built by Paul Biebel of Biebel Builders. 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 Charcoal Gray Permacolor finish to the metal that was fabricated onsite by JEI, Inc. doing business as Iron Horse Standing Seam Roofing. The home required 10,000 square feet of painted metal roofing. It was noted that the project used BASF's ULTRA-Cool coatings based on Kynar 500® PVDF resin, which meet Energy Star specifications for Cool Roofs that can save energy. This coating system can reflect heat away from the building while increasing the life expectancy of the roof due to less expansion and contraction. This also eliminates oil canning of the metal surface.

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Arkema Inc.
900 First Ave
King of Prussia, PA 19406
Phone: 610-205-7000
www.arkema-inc.com

www.kynar500.com