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COATINGS FORMULATED WITH KYNAR AQUATEC® PVDF LATEX MEET NEWLY RELEASED SSPC PAINT 47 STANDARD

For more than 20 years, Kynar Aquatec® PVDF latex resin-based coatings have offered a quantum improvement in topcoat gloss and color retention compared to coatings containing conventional acrylic and polyester resins. Now, specifiers of both protective and architectural restoration coatings systems can specify these field-applied coatings according to the SSPC Paint 47 standard.

Innovative Kynar Aquatec® PVDF latex is used by paint formulators to make premium weatherable water-based coatings. Coatings formulated with this latex can provide the durability and performance of traditional Kynar 500® PVDF resin-based coatings. They can easily be applied to a variety of substrates, including metals, plastics, wood, concrete, textiles, and even some previously painted surfaces.

Now, the extreme weatherability of a Kynar 500® PVDF resin-based coating is available in an aqueous low-VOC, 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.

Specifiers of both protective and architectural restoration coatings systems have expressed a need for an SSPC standard for field-applied fluoropolymer topcoats, particularly for bright and saturated colors. In December 2020, the SSPC Paint 47 standard was released and now addresses that need.

A key challenge for the new standard was to identify a set of accelerated weathering test conditions, which would allow for the reliable qualification of fluoropolymer topcoat formulations much faster than the 10-50 year outdoor service life of the fluoropolymer paint.

The SSPC C.1.8 committee identified accelerated test conditions that accurately differentiate, in six months, between high weatherability fluoropolymer formulations, and conventional SSPC Paint 36 and MPI 311 formulations. They used the same performance criteria specified in the AAMA 2605 standard after a 10 year Florida exposure, a gloss retention >50%, color retention Delta E of < 5 units, and a chalk rating ≥ 8 (≥ 6 for whites). Below is a table comparing popular North American standards for weatherable top coats and finishes.

Standard	Referenced Substrate	Primary application conditions	Years of Florida weatherability referenced in standard	Color used for Florida weatherability	Color fade requirement for non-whites?	Referenced Resin Type
AAMA 2605	Aluminum	Factory bake	10	Any	Yes	None
MPI 311/ 315	Any	Field-applied	–	–	No	Latex
SSPC Paint 36	Steel	Field-applied	1 – 4	White or off-white	No	2-component polyurethane
SSPC Paint 47	Any	Any	10 years FL or 4000 hours UVB 313	Any	Yes	Fluoropolymer

“Architects can now specify high performance, field-applied fluoropolymer coatings for superior color and gloss retention with the same confidence as factory-applied coatings,” stated David Stutzman, specifier at Conspectus, Inc. upon learning of the new standard. “It’s easy – just reference SSPC Paint 47!”

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¹On January 1, 2021 the SSPC merged with NACE to form AMPP. Copies of the new standard are available in the AMPP Store at <http://shop.sspc.org/ST-PAINT47>

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