PRODUCT DATA SHEET

ENGINEERED BY:
APV ENGINEERED COATINGS

NeverFade® **2K PERFORMANCE TOPCOAT**
with Kynar Aquatec® CRX PVDF
Part A: Water-Based Part B: Solvent-Based
PRODUCT #: Custom 2K System

NEVERFADE®
2K PERFORMANCE COATINGS

PRODUCT DESCRIPTION:

The NeverFade® 2K Performance Topcoat with Kynar Aquatec® CRX is used on applications where extreme weatherability, abrasion resistance and chemical resistance is required. This two component system is part of APV's NeverFade® line of facade restoration coatings, our most advanced line of exterior topcoat chemistries for the architectural industry. It is low in VOC and engineered specifically for metal building materials with a high cross-link density and PVDF content. Offered with a 15 year warranty against fading, NeverFade® has proven its longevity in protecting and preserving color vibrance- even with dark colors and earth-tones.

Along with weatherability, abrasion and chemical resistance, NeverFade® 2K Performance Topcoat protects surfaces against algae and fungus growth, dirt pickup, and stains and does not chalk or break down overtime like traditional exterior acrylic latex coatings.

WITH KYNARAQUATEC® TECHNOLOGY

About the chemistry...

Natural elements, such as sunlight, water, wind, and air, drastically break down coatings over time. The heart of the Kynar Aquatec® emulsion technology, the key ingredient in the NeverFade® Topcoat, is the carbon-fluorine (C-F) bond. The C-F bond is one of the strongest bonds known and it is the basis for extreme weatherability, withstanding harsh thermal, chemical, and ultraviolet environmental conditions.

PHYSICAL PROPERTIES:

Product Description:	2K Performance Topcoat
Product Number:	CUSTOM + K1-0042 KIT (3.5% by wt.)
Number of Components:	Two
Type:	Part A: Water-based, Part B: Solvent-Based
Viscosity:	2100 +/- 300 cps (as supplied)
Weight per Gallon (ASTM D 1475-90):	8-12 lbs/gal
Flash Point:	170 °F (76.7 °C)
Solids:	32 % by weight 34 % by volume
VOC (CROSSLINKED):	44.4 g/l
Recommended Film thickness:	3 - 4 mil (wet) 1 - 1.36 mil (dry)
Coverage:	350-400 sq ft/gal
Dry Time: (dependant on air temperature/humidity)	To touch: 15 minutes Re-coat: Min. 6 hours, Max 7 days
Pot Life:	6 - 8 hours
Shelf LIfe:	12 Months Unopened
Freeze Caution:	Keep from freezing
Recommended Storage:	Cool, Dry, and Well Ventilated Storage

SUBSTRATES:

NeverFade® 2K Performance Topcoat is recommended for Carbon Steel, Stainless Steel, Galvanized Steel, and Aluminum with one of our primer systems. Other substrates are acceptable, contact APV Engineered Coatings' Technical Department for approval and guidelines on application.

COLORS:

NeverFade® 2K Performance Topcoat is available in Eggshell and Semi-gloss sheens. Flat or low-gloss may be formulated under special request. Colors are custom matched to order.

PACKAGING:

Ready-to-use as supplied. Packaging sizes include: 1 gallon cans and 5 gallon pails.

FEATURES:

- 15 Year Warranty Against Fading
- Exceptional Resistance to UV Degradation
- High Performance in Abrasion and Chemical-prone Exterior Environments
- Low Solvent Content
- Low VOC
- Resistant to Algae & Fungal Growth
- Resistant to Dirt Pick-up and Staining
- Resistant to Chalking
- Spray, Brush, or Roll Application
- Industry Proven Resin
- Inorganic Pigments
- Custom Matched Colors

SUBSTRATE PREPARATION:

Although APV's coating systems have been designed to apply over a wide variety of surface types, some substrates require additional preparation. Always consult your APV technical representative regarding each project. In all cases, the substrate must be properly prepared as defined in the instructions below and tested using the ASTM D3359 Standard Test Methods for Measuring Adhesion by Tape Test prior to coating the surface. Follow the guidelines on surface preparation and application thoroughly by referencing the **Field Coatings Guide**. Inadequate surface preparation and application can lead to coating failure and/or under-performance.

APPLICATION:

TEMPERATURE AND ENVIRONMENTAL FACTORS

Ambient air temperature is pertinent to coating performance and cure. Be sure to check that the air, surface, and material are between 55°-90°F and at least 5°F above the dew point. Avoid application if precipitation is expected within 24 hours and/or if air or surface temperature is expected to drop below 35°F within two days. Do not apply paint in direct sunlight as the flow, leveling and application characteristics will be adversely affected.

Wind Velocity | High wind velocity can severely impair spray application which can result in loss of materials, low film build, excessive dry spray or overspray. It is recommended to delay work until wind conditions are below 15 m.p.h.

Dust and Contamination | Work areas should be protected from conditions where dust and contamination are possible during the application and curing process. Dust and contaminants that settle on fresh applied coatings can impair the integrity of the coating leading to a shorter coating life and reduced performance. Please ensure your work area is free from dust and contaminants. If any previous coatings accumulate dust or contaminants, remove those before adding succeeding coats.

Mixing and Thinning | NeverFade® should be mixed thoroughly before use with an air mixer for 10-15 minutes.No dilution is necessary for most applications. However, all products can be reduced if needed for application. Additional products can be used to slow dry time. Please reference the reduction and viscosity information in Page 1 and always consult your APV representative.

Ventilation | Always use adequate ventilation and proper NIOSH approved respirator when applying NeverFade® topcoats and associated primer systems. Avoid breathing mist or sanding dust created by the application or surface preparation.

FILM THICKNESS AND SPREADING RATE

Theoretical spreading rates as defined in the Technical Data Sheet can be used as a guide for determining film thickness. However, to validate proper film thickness, wet thickness readings should be taken at random locations immediately after application. A Nordson Wet Film Gauge or similar instrument should be used for this purpose.

Dry film thickness should be measured to validate proper thickness and coverage. Consult SSPC-PA2, Sections IV, Paint Thickness Measurement. Readings should be taken in accordance with the specification's standards mentioned above.

Applying the appropriate film thickness is important to the performance characteristics of the coating. Be careful not to apply too heavy of a coat. Excessive paint on the surface may result in runs and sags, producing an unsightly appearance, as well as weak spots in the film. A heavy coat weight may also change the drying properties causing wrinkling or cracking, and adversely affect intercoat adhesion. Applying too thin of a coat can impact the service life of the coating system and could mean discontinuity in coverage.

Proper film thickness, as referenced in Page 1, is critical and will need to be recorded for warranty compliance.

BRUSH, ROLL AND SPRAY APPLICATION

NeverFade® Topcoat can be applied with a brush, roller, or spray gun. When using a spray application, it is advisable to back-roll surfaces to assure proper wetting of the substrate. Products can be reduced as necessary for spray with water.

Brush | Nylon/Polyester Brush
Roller | 3/8"-3/4" nap cover
Conventional, HVLP, Airless, & Air Assisted Airless | Consult an APV Equipment Specialist for recommendations on spray tips, caps, nozzles, fluid and air pressures.

CLEANUP INFORMATION:

Always observe good professional hygiene practices and wash hands thoroughly after using our products. Clean hands immediately after use with soap and water. Use water to thoroughly clean application equipment. This will keep the coating from curing onto the surfaces. Any cured or dried coating left on the equipment will have to be removed with standard grade paint thinner. After cleaning, flush spray equipment with water or a water/solvent blend.

CAUTIONS. It is necessary for the integrity of the job that contractors ensure all personnel are properly protected from hazards when coating, or blast cleaning. There are numerous OSHA standards that cite how, where, and when workers need to be protected. You should consult OSHA, local, and equipment officials before starting the job to ensure your complete compliance with the law to avoid any liability issues. Product labels, Product Data Sheets, and Safety Data Sheets should always be consulted prior to any coating operations, and safety and health details should be addressed prior to implementing these operations.

Always dispose of dry, empty containers in compliance with local or state regulatory codes. First Aid: In case of eye contact, flush with water for 15 minutes. In case of skin contact, wash with soapy and water. If you experience difficulty breathing, seek a fresh source of air. In all cases, if you continue to experience discomfort, seek medical attention immediately. All products are for professional use only. Do not take internally. Keep out of reach of children. **Refer to the Material Safety Data Sheet for safety instructions.**

WARNING! Removal of old paint may generate fumes and dust that contain lead. This may be a step in the surface preparation process outlined previously. Lead can cause serious health issues. For more information regarding the proper protective equipment, containment, and cleanup for the removal of lead based paints contact the **National Lead Information Center at 1.800.424.LEAD or contact your local health authority.**

APV ENGINEERED COATINGS

APV Engineered Coatings, Inc.
1390 Firestone Parkway Akron, Ohio 44301 USA
800.772.3452 sales@apvcoatings.com www.apvcoatings.com