



## **FR-Series Powder Coatings**

KwoLin FR-Series are super durable fluoropolymer powder coatings with excellent weatherability, physical resistance, and chemical resistance. They meet the requirements of high-end building materials and can be widely used in outdoor environments such as metal doors and windows.

## **Application and Storage Conditions:**

- Oil, grease and rust should be removed by degreaser. Then zinc phosphate pretreatment is recommended for optimum performance.
- Use the electrostatic spray gun to application on substrates.
- The film should be cure on metal temperature at 200°C for 15 minutes.
- Film thickness should be controlled at  $60 \sim 90 \, \mu \text{m}$  for high performance.
- Shelf life is six months when stored in dry conditions at 25°C.

## **Products Properties:**

Test Item	Test Method	Result
Specific gravity	By calculate	1.4 ± 0.3
Film adhesion		
Dry		100%
Wet		100%
Boiling water		100%
Impact resistance(5/8 ")		60in-lb no peel off
Dry film thickness(μm)		60 ~ 90 μm
CORONA film tester	ASTM D2605-13	
Dry film hardness		Н
Humidity resistance		No corrosive
(100%RH,100°F, 3000 hrs)		
Detergent resistance		No blister. No significant
(3%by weight) (100°F, 72h)		changes in appearance.
Chemical resistance		
Muriatic Acid		Color no change
Nitric Acid (^E)		No effect. Color changes
Mortar		below 5E
		Color no change
Weather test (3000 hrs)		

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etention >50%	

Gloss retention (%)	ASTM G155-13	Gloss retention >50%
Salt spray test		
(5%NaCl, 3000 hrs)	ASTM B117-11	No blister. No Crack

## Tests were performed on Q-Panel AL36

Disclaimer: The information and data of this product are inferred or tested based on our company's previous knowledge. Users are responsible for inspecting the quality, safety, and other attributes of the product mentioned here. Except for a binding purchase agreement specifically signed for this product, KwoLin makes no express or implied warranties, including operability and applicability. The physical and chemical properties such as related colors, gloss, and other factors may vary slightly due to the substrate properties, pretreatment procedures, film thickness, and baking temperature and time by your company. We strongly recommend that your company conducts trials to confirm that it meets your requirements before using it in production.

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