

# SIKO INDUSTRY LIMITED

Add: Economical Developing Zone, Tanshi, Zhangjiagang, Jiangsu, China  
Direct Line: 0086-512-56991792 Fax: 0086-512-56991152

## ALUWEDO® FEVE (EVE ) Aluminium Composite Panel

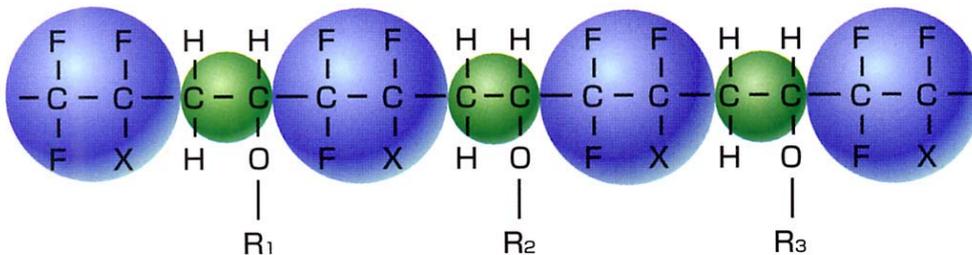
### Brief Introducing:

FEVE aluminum composite panel has high quality polyurethane as the primary coat and fluororesin after mid-high baking as the surface coating. It has a good weather resistance up to 10-15 years and is distinguished from the PVDF fluorocarbon coating by features of brilliant color and high gloss, the diversification and uniqueness of which makes it unparalleled by other painting systems. It's especially applicable in decorations and exhibitions for commercial chains, auto 4S stores, and gas stations where the color effects are required.

### What Are Fluoroethylene Vinyl Ether (FEVE) Resins?

 Fluoro Ethylene

 Vinyl Ether



Fluoroethylene Segment  
Weatherability, durability,  
chemical resistance

Vinyl Ether Segments  
R1=Clarity, gloss, hardness  
R2=Flexibility  
R3=Crosslinking site (-OH)  
Solubility

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## 1. PRODUCTS INFORMATION

PRODUCTS NAME:	ALUWEDO® Aluminum Composite Panel
SURFACE COATING:	FEVE (EVE )
COLOR RANGE:	RAL Colors, Pantone Colors or Customized Colors
PAINT FINISH:	Reach to 85% Gloss Level
SIZE AVAILABLE:	
Panel Thickness: (mm)	2mm----- 6mm
Aluminum sheet thickness: (mm)	0.21mm-----0.5mm
Panel Width: (mm)	1000mm-----2012mm
Panel Length: (mm)	Cut any as required
DIMENSIONAL TOLERANCES:	
Thickness(mm)	± 0.2mm
Width(mm)	± 2mm
Length(mm)	± 3mm
Diagonal(mm)	± 5mm
Thermal Expansion	2.4mm/m @100 oC Temp Difference
Aluminium Thickness(mm)	± 0.02mm
SURFACE PROPERTIES:	
Pencil Hardness	> HB/> 2H
Temperature Resistance	-50 oC to +80 oC
Impact strength(kg. cm)	50
Boiling Resistance	Boiling for 2 hours without change
Acid Resistance	Immerse Surface in 2% HC1 for 48 hours without change
Alkali Resistance	Immerse Surface in 2% NaOH for 48 hours without change
Oil Resistance	Immerse Surface in 20# engine oil for 48 hours without change
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change
PRODUCT PROPERTIES:	
Sound Absorption NRC	0.05
Sound Attenuation Rw db	23/24/25
Water Absorption % by volume	0.0047/0.0057/0.0012
Core Composition	LDPE Polyethylene, Non- Combustible Material

## 2. FEATURES AND BENEFIT OF FEVE (EVE)



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**ALUWEDO® FEVE (EVE) Aluminum Composite Panel** can be directly applied for silk screen, digital printing, spray-print, and instant stick. Meanwhile, it is easy to be cut, punched. It had great feasibility on processing, easy to be fixed to all cladding, including all shapes, angles, curves, radius, bending, joint, connection, etc. It can be finished by normal machines for metal and wood

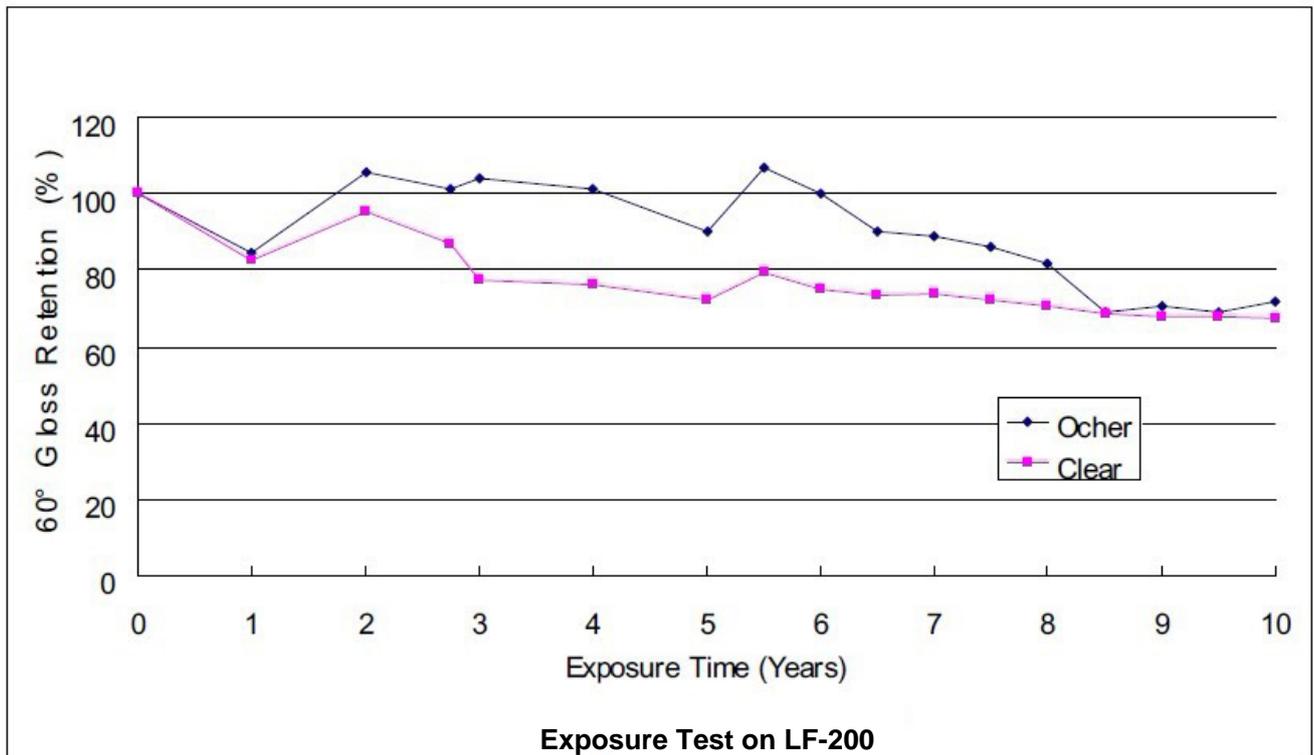
## Feature

Fluoropolymer segments  
Amorphous and solvent soluble  
Hydroxy functional  
High solids/solid resins

## Benefit

Outstanding weatherability,  
corrosion and chemical resistance, lower life cycle costs.  
Clear, wide range of gloss and color.  
Cure at ambient and elevated temperatures  
Low VOC/reduced VOC coatings

### 3. WEATHERING OF FEVE COATING

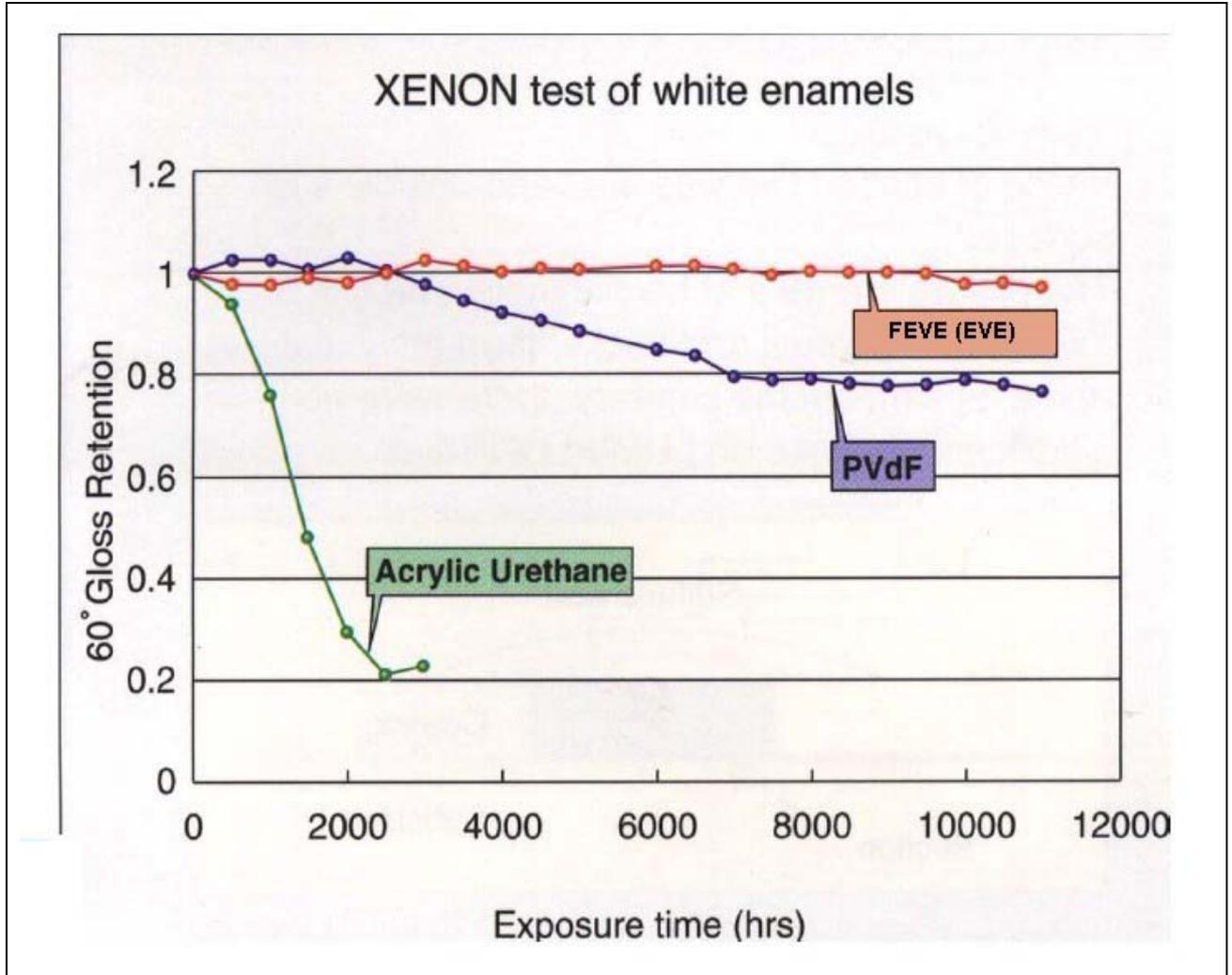


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## 4. XENON ARC TEST RESULTS OF FEVE COATING

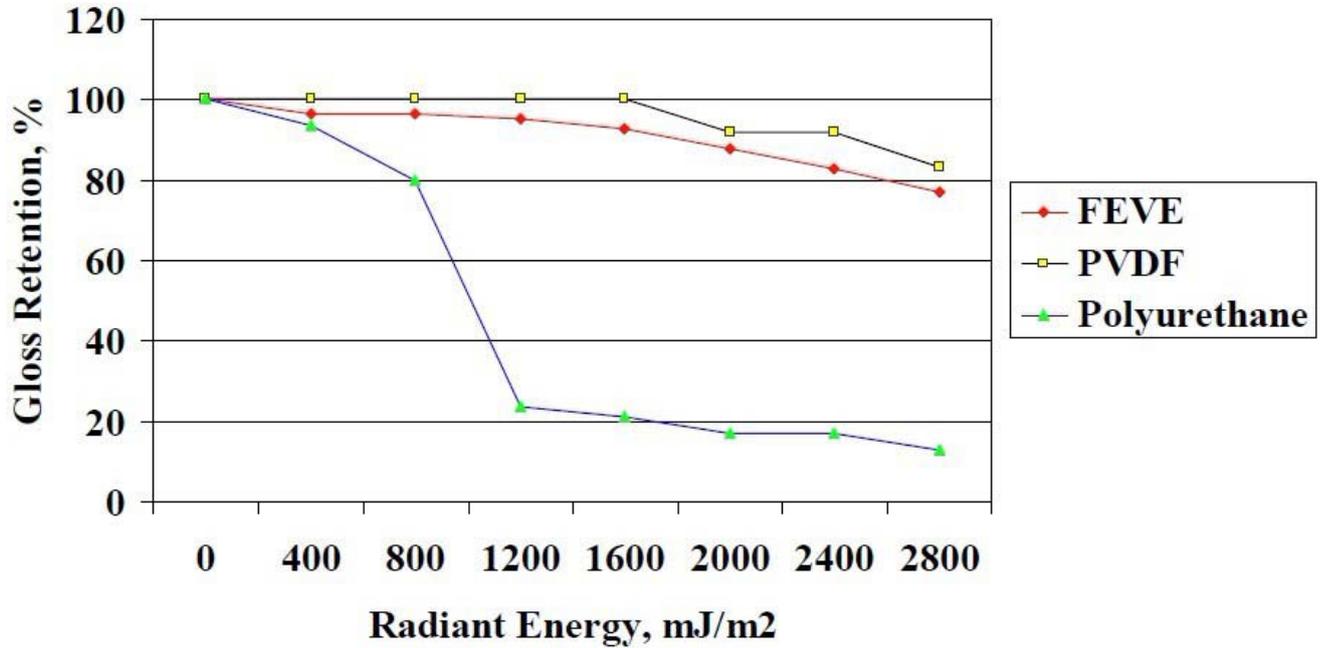


Aluminium Composite Panel

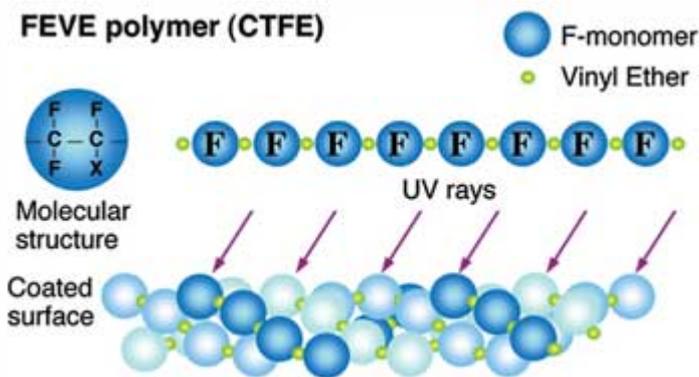
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## 5. EMMAQUA TESTING OF FEVE COATING



UV: Mj/m2 (295-385nm)



## 6. NATIONAL QUALITY SUPERVISION TEST REPORT FOR FEVE COATING



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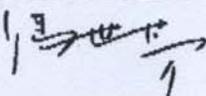
## National Quality Supervision Testing Center for Paint Test Report

No. TW08231L2

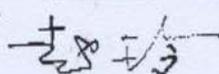
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Name of Product	4F Big Red	No. of Sample	TW08231
		Trademark	/
Manufacturer	Zhangjiagang Liyu Chemical Co., Ltd.	Entrusting Date	March 3, 2008
		Arriving Date	March 11, 2008
Description Of Sample	The appearance of the 4 test panels on aluminum plates delivered by the entrusting corporation is red and flat.		
Basis of Test	The test item put forward by the entrusting corporation and the test method confirmed		
Test Method	GB/T 1865-1997 Paints and varnishes--Artificial weathering and exposure to artificial radiation-- Filtered xenon-arc radiation		
Rating Method	GB/T 1766-1995 Paints and varnishes--Evaluation of degradation of paint coatings		
Date of Preparation of Coatings Panels		/	Test Date
			March 14, 2008~April 11, 2008
Test Item	Test Results		
Artificial weathering test	The followings are the test results of the test panels during 500h artificial weathering test: 100h~500h, There is almost no discoloration on the paint film. The color deviation is between 1.2 and 1.2 and the discoloration grade is 0. 100h~400h, There is almost no loss of gloss on the paint film. The ratio of loss of gloss is 2% and 3% and the grade of loss of gloss is 0. 500h, There is very light loss of gloss on the paint film. The ratio of loss of gloss is 6% and the grade of loss of gloss is 1. 100h~500h there is no chalking, cracking, flaking, blistering, rusting and etc. on the paint film.		
	Remarks:		
		 Date of Sign and Issue: April 15, 2008	

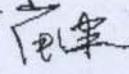
Approver



Checker



Tester



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