

**New Hangar Floor Case History**  
(Planned opening - September 2008)

**AOP CORPORATION**



1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080

**AOP CORPORATION** has been servicing corporate, government, and private owners, or operators of fixed and rotary wing aircraft with aircrafts parts, maintenance, repair, overhaul, and engineering solutions since 1993. Recently, they added aircraft sales and other aviation services (creating a demand for a new aircraft hangar, now planned for completion September 2008).

**CORPORATION**



Site cleared October 2007.



Phase One of AOP Corporation started December 2007.



Concrete poured November 2007.



Additional concrete poured December 2007.



Steel construction started January 2008.

608 Harbert  
P.O Box 698  
Columbus, TX 78934  
T 979-732-5731  
F 979-732-3663

**DRYMALLA**  
Construction Company  
[www.drymalla.com](http://www.drymalla.com)

General Contractor



# AOP CORPORATION

## New Hangar Floor Case History (Planned opening - September 2008)



1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080



Construction progress April 2008.



Construction progress June 2008.



1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080

Photographs below show the general floor preparation/repair/concrete restoration including the start of the primer process (E31-1202-64) / (E31-1202) started July 2008.





**1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080**

**E31-1202 being applied over E31-1202-64.**



**REDFORD Corporation** Epoxy Coating  
**E31-1202**

1075 Kingwood Drive • Kingwood, Texas 77339 • (281) 358-4100

HANDLING	
Mix ratio	2:1 (A:B) parts by volume
Initial viscosity	100 cP
Puffing (no sand)	50 minutes (200 grams @ 25 °C)
Color	Clear (grey, beige, and white)
Coverage	Mortar approximately 55 sq. ft. @ 1/8"

TECHNICAL INFORMATION	
Ultimate tensile strength (psi)	3700
Tensile elongation (%)	3
Ultimate flexural strength (psi)	13,100
Compressive yield strength (psi)	13,000
Hardness (Shore D)	65

**DESCRIPTION:**  
E31-1202 is a two-part, self-leveling, water-clear, self-priming, 100% solids epoxy specifically designed as a high performance color coating for areas where residual moisture exists. Outstanding features include:  
 • good abrasion/light resistance compared to most formulated epoxies  
 • non-solvent  
 • excellent adhesion to most substrates  
 • resists up to 100% humidity during application  
 • good color development  
 • high abrasion resistance  
 • excellent adhesion

**AVAILABILITY:**  
Packaged in 5-gallon pails, 40-gallon drums, 1-gallon cans, and 5-gallon buckets. For more information, including price, call REDFORD Corporation (281) 358-4100.

**APPLICATION:**  
Epoxy resin and hardener should be mixed in the ratio specified in the technical data sheet. Preparation of concrete specifications for applications of epoxies and curing options for epoxies.

**CAUTION:**  
Epoxy resin and hardener are irritants. Do not breathe dust. Do not touch or swallow. Do not get on face or in eyes. Wash thoroughly after using and before eating or drinking. Washed if swallowed. Do not breathe dust. Do not get on skin. Do not get on clothing or shoes.

**REDFORD Corporation** Epoxy Coating  
**E31-1202-64**

1075 Kingwood Drive • Kingwood, Texas 77339 • (281) 358-4100

**DESCRIPTION:**  
E31-1202-64 is a two-part, self-leveling, water-clear, self-priming, 100% solids epoxy specifically designed as a high performance color coating for areas where residual moisture exists. Outstanding features include:  
 • good abrasion/light resistance compared to most formulated epoxies  
 • non-solvent  
 • excellent adhesion to most substrates  
 • resists up to 100% humidity during application  
 • good color development  
 • high abrasion resistance  
 • excellent adhesion

**RECOMMENDED FOR:**  
Interior concrete floors, walls, and ceilings. Also for use on steel, aluminum, and other non-ferrous metals.

PROPERTY	VALUE
Initial Viscosity	100 cP
Final Viscosity	100 cP
Shelf Life	12 months
Color	Clear
Coverage	55 sq. ft. @ 1/8"
Hardness	65 (Shore D)
Compressive Strength	13,000 psi
Tensile Strength	3,700 psi
Elongation	3%
Flexural Strength	13,100 psi
Flexural Modulus	3.0 x 10 <sup>6</sup> psi
Adhesion	Excellent
Chemical Resistance	Excellent
Impact Resistance	Excellent
Wear Resistance	Excellent
Temperature Range	-40 to 180 °F

**REDFORD Corporation** U31-1201  
**Linear (Aliphatic) Urethane**

1075 Kingwood Drive • Kingwood, Texas 77339 • (281) 358-4100

**Recommended for:**  
Aircraft hangars, industrial concrete floors

**Solids by weight:**  
Clear (mixed) ..... 64% / 2  
Colors (mixed) ..... 67% / 2

**VOC:**  
Part A clear ..... 3.43 lb/gal.  
Part A colors ..... 3.41 lb/gal.  
Part B ..... 2.2 lb / gal

**Theoretical coverage per mixed gallon:**  
300 to 500 square feet per mixed gallon

**Colors:**  
Clear, light gray, dark gray, red, green, blue, brown, and special colors

**Finish:**  
High gloss colors  
High gloss clear

**Recommended film thickness:**  
3 to 5 mils wet

**Mix ratio:**  
2:1 by volume

**Shelf life:**  
One year

**Packaging information:**  
3 gallon kit = 2 gal. Part A to 1 gal. Part B  
Part A clear ..... 8.25 lb. per gal.  
Part A colors ..... 9.1 lb. per gal.  
Part B ..... 8.8 lb. per gal.  
Weights are approx.; wt. varies with color.

Chemical resistance:		
Weak acid	Immersion	Splash
Strong acid	..... very good	..... excellent
Alkali	..... excellent	..... excellent
Aromatic solvents	..... excellent	..... excellent
Chlorinated solvents	..... not recommended	..... not recommended
Aliphatic solvents	..... excellent	..... excellent
Most ketone	..... very good	..... excellent
Gasoline	..... excellent	..... excellent
Brake fluid	..... excellent	..... excellent
Silycon <sup>®</sup>	..... not recom-	..... excellent

*\*Depending on type of hydraulic fluid, softening or discoloration may occur after long term immersion or exposure*

**Abrasion Resistance:**  
Taber Abraser CS-17 Wheel  
1000g load, 500 cycles (mg loss) ..... 24 mg

**Impact Resistance:**  
Gardner Impact (in. lb.) ..... A Reverse: 160  
B Direct: 160

**Hardness:**  
Shore D-64

**Flexibility:**  
No cracks on 1/8" mandrel

**Cure Schedule:**  
Tack free ..... 5 to 6 hours  
Recoat ..... 6 to 10 hours  
Light traffic ..... 24 hours  
Full cure ..... 3 to 4 weeks  
Decrease cure times for terry

**Pot Life:**  
1 to 2 hours, longer at lower temperatures.

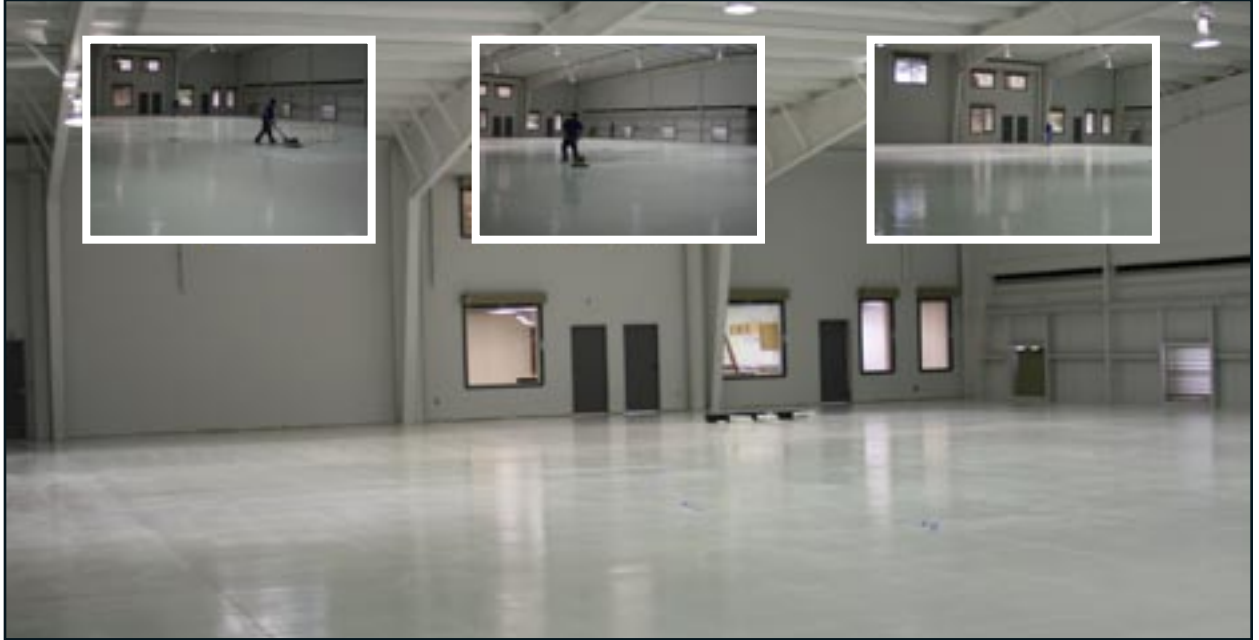


**Mezzaine:**

First application of **U31-1201** (applied over shot blasted surface /E31-1202-64 primer/E31-1202 100% solids epoxy). This upstairs portion of the hangar will be used for parts storage.

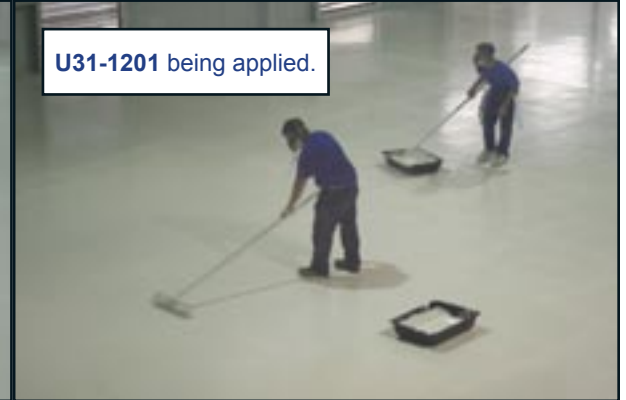


1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080





1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080



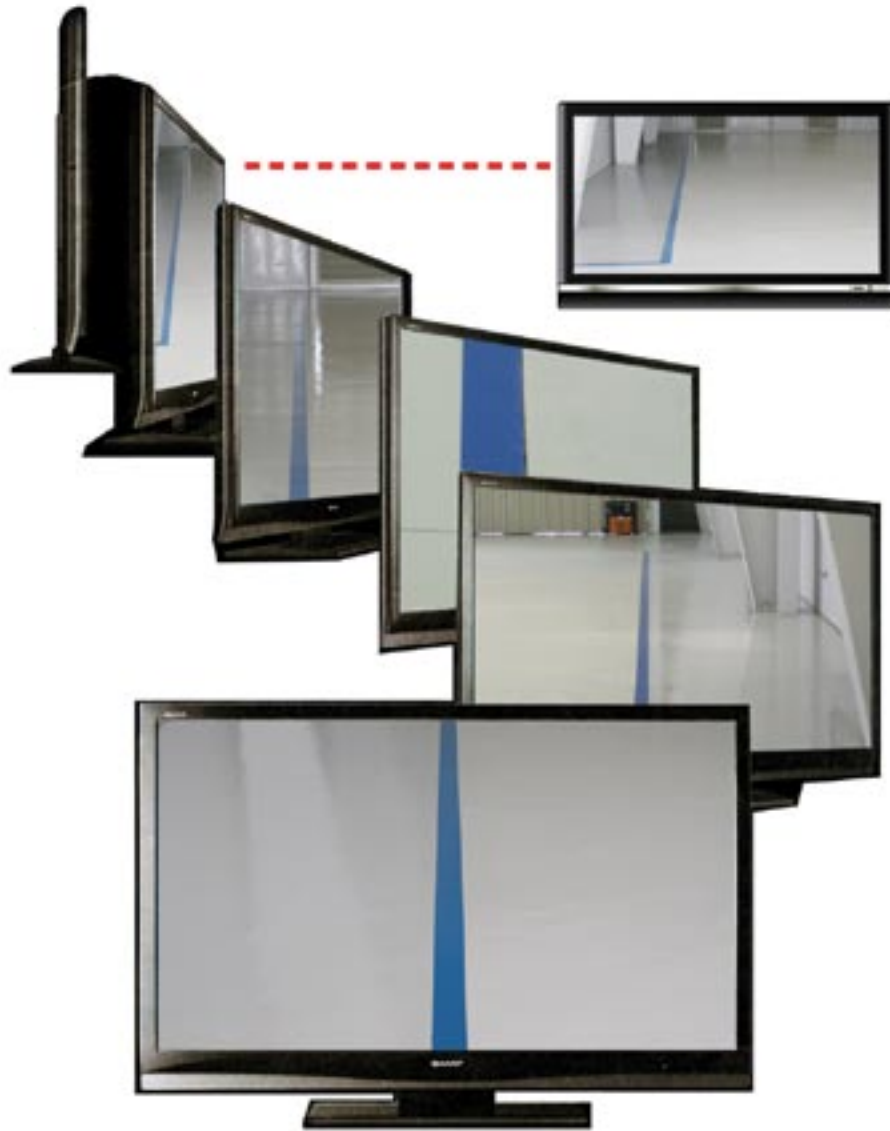
Walkway started with light gray contrasting color.



Light gray walkway installed/safety blue striping started.



1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080



Striping complete.



1800 Groschke Rd.  
West Houston Airport  
Houston, TX 77084  
877.829.1080

