



**Automotive Hobby Shop**  
2120 Carswell Ave.  
Lackland Air Force Base, Texas 78243

**General Contractor**  
ETI and Associates Inc.  
San Antonio, Texas 78217

Lackland Air Force Base, Texas is home to the 37th Training Wing of the U.S. Air Force. The 37th Training Wing provides basic military, professional / technical skills, English language training for other military services, government agencies, and allies. Below are photographs of the automotive hobby shop at Lackland Air Force Base. The buildings include one constructed in 2000 and an older building constructed "forty years ago" (as a tank repair facility). Lackland dates back to July 4, 1942. These photographs show "step by step" the installation of a new "epoxy" floor (June 2009).



"Forty year old building"



"New building constructed in 2000"

### About Lackland AFB

Lackland Air Force Base is also known as the Gateway to the Air Force. Gateway, as the name implies, means that enlisted personnel in the active Air Force, Air National Guard and Air Force Reserve all begin their careers here by completing Basic Military Training. Historically, training has been the mainstay of the base and that continues today with a wide variety of organizations dedicated to training today's expeditionary Airmen in a myriad of skills.



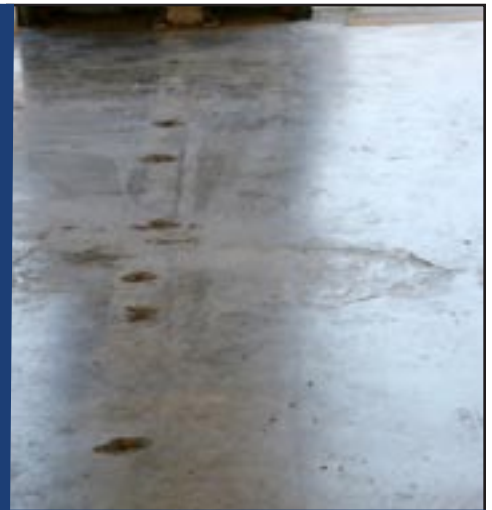


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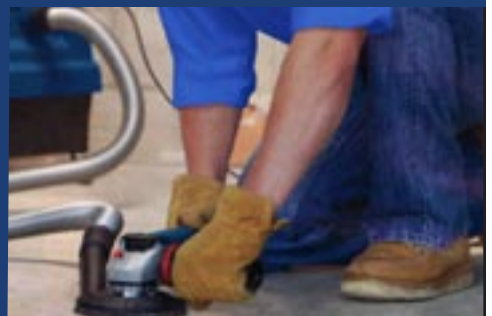
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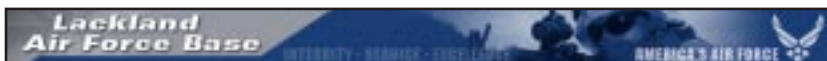
Lackland Air Force Base /Automotive Hobby Shop Floor Case History - San Antonio, Texas



**The process involved:**

1. Sandblasting / Diamond Grinding
2. Cleaning Floor Surfaces / General Coating Preparation
3. Applying E31-1204 Crack / Hole Filler
4. Applying E31-1202 100% Solids Epoxy
5. Applying E31-1203 Epoxy Topcoat
6. Clean up



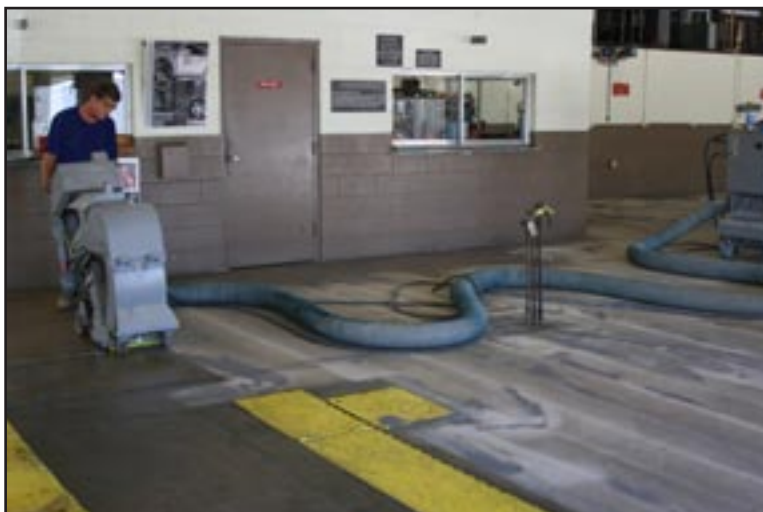


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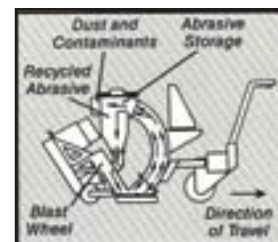
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Shot Blasting (Portable Vacuum Blasting)



Shot Blasting - an economical means of concrete cleaning and profiling in one easy step.

Shot Blasting by Concrete Preparation Systems, Inc.



Shot Blast Equipment



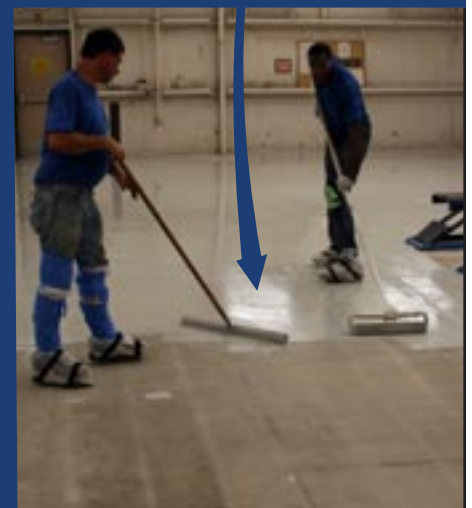
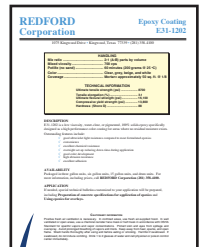
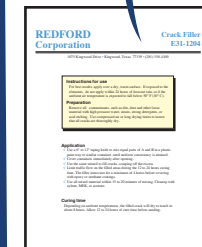
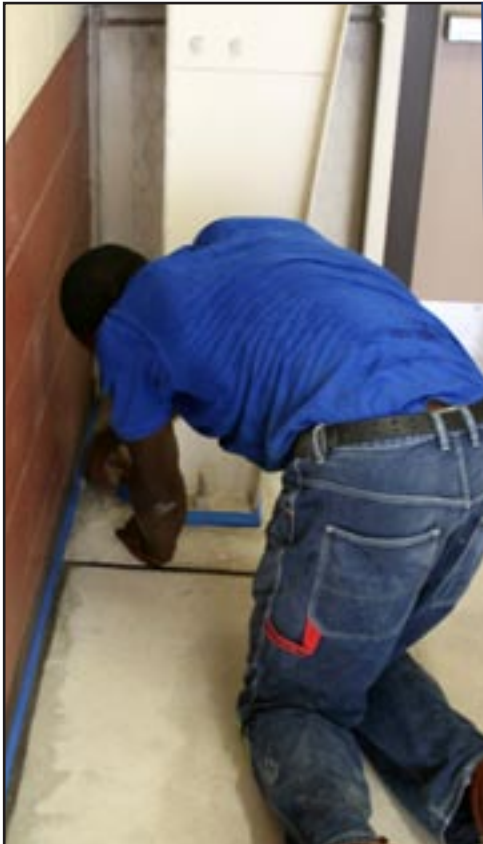
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E31-1202 being squeegeed and back rolled



Lackland Air Force Base

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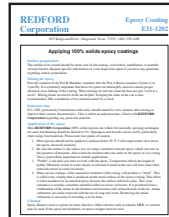
AMERICA'S AIR FORCE



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E31-1202 being applied to "New Building"



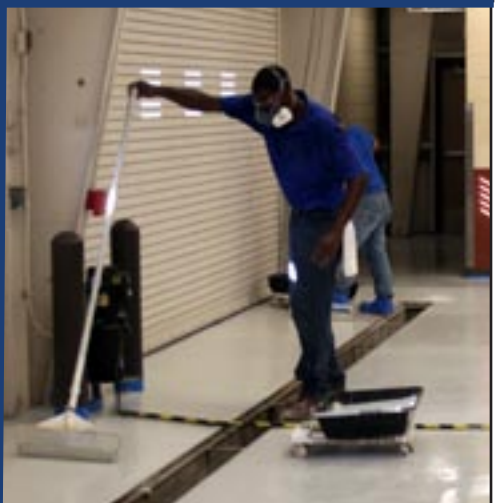
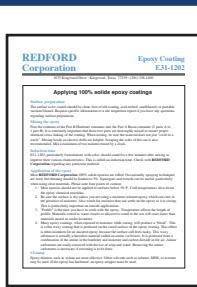
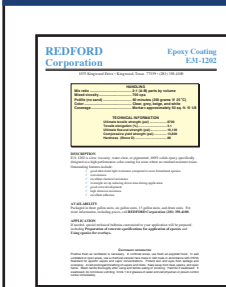
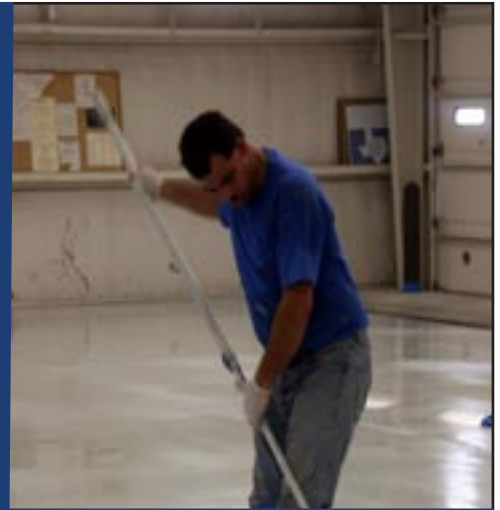


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Additional photographs of E31-1202 being applied



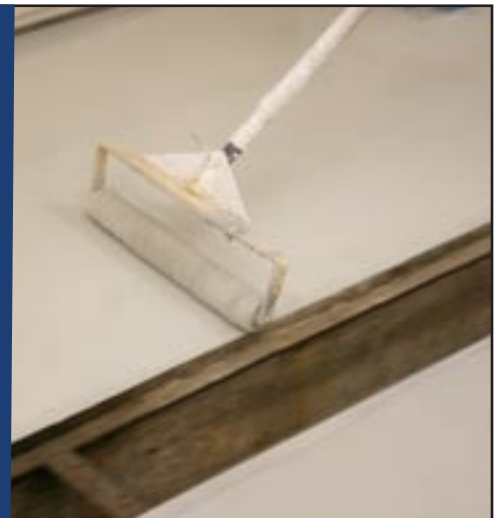


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**REDFORD Corporation** Crack Filler E31-1204  
1075 Kingswood Drive • Kingswood, Texas 77339 • (281) 358-4100

**Instructions for use**  
For best results, apply over a dry, warm surface. If exposed to the elements, do not apply within 24 hours of forecast rain or if the ambient air temperature is expected to fall below 50° F (10° C).

**Preparation**  
Remove all contaminants, such as dirt, dust and other loose material with high pressure water, steam, strong detergents, or acid etching. Use compressed air or long drying times to ensure that all cracks are thoroughly dry.

**Application**

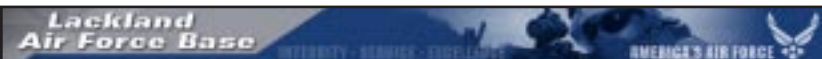
- Use a 4" to 12" taping knife to mix equal parts of A and B in a plastic pan or tray or inside container, until uniform consistency is obtained.
- Cover containers immediately after opening.
- Use the area around the fill cracks, sweeping off the excess.
- Apply right from the filler pan during the 12 to 24 hours curing time. The filler may cure for a maximum of 4 hours before covering with epoxy or other sealant.
- Use all mixed material within 15 to 20 minutes of mixing. Clean up with nylon, NBR, or acetone.

**Curing time**  
Depending on ambient temperature, the filled crack will dry to touch in about 8 hours. Allow 12 to 24 hours of cure time before sanding.



Holes diamond ground / filled with E31-1204 then sanded flush to the floor





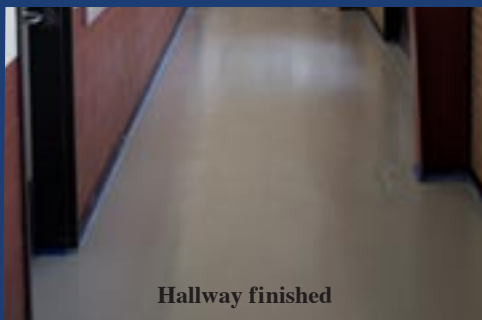
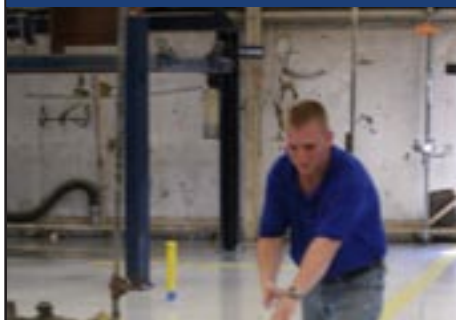
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E31-1202 being applied



Hallway finished



**Epoxy E31-1203  
topcoat being  
applied**

**REDFORD Corporation**      **Epoxy Emulsion E31-1203**

1077 Howard Drive - Kaysville, Utah 84043-2808

Typical properties	
Color	Light grey
Shelf life	12 months
Viscosity	100-150 cps
Specific Gravity	1.10
Weight	35 lbs. (15.8 kg)
Volume	2.5 gal (9.5 L)
Application	Roller, brush, spray
Drying time	2-4 hours
Full cure	7-10 days
Notes	For use on concrete, steel, and other surfaces.
Chemical resistance	Good resistance to acids, alkalis, and solvents.

**Description:** E31-1203 Corporation E31-1203 is a two-part epoxy emulsion for use on concrete, steel, and other surfaces. It is a high-strength, durable, and easy-to-apply floor coating. It is available in a variety of colors and finishes.

**Benefits and Features:**

- High-strength and durable
- Easy to apply
- Long life
- Resistant to acids, alkalis, and solvents

**Packaging:** 35 lb. (15.8 kg) and 2.5 gal (9.5 L)

**Surface preparation:** See standard surface preparation procedures for concrete, steel, and other surfaces. The surface must be clean, dry, and free of oil, grease, and other contaminants. The surface must be roughened to a minimum of 20-30 mesh. The surface must be free of moisture and other contaminants.

**Application:** Apply with roller, brush, or spray.

**Maintenance:** For long-term maintenance, see the maintenance procedures for E31-1203.

**Disclaimer:** Redford Corporation is not responsible for any damage or injury caused by the use of this product. The user must read the safety data sheet and follow the instructions carefully.





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E31-1203 final finish applied



Coating work crew with David Chapman, ETI and Associates

**Automotive Hobby Shop Personnel**



**John Crespo (Manager), Ralph Dunlap, Mario Maldonado, and Jean Garcia (Director - Arts & Crafts)**