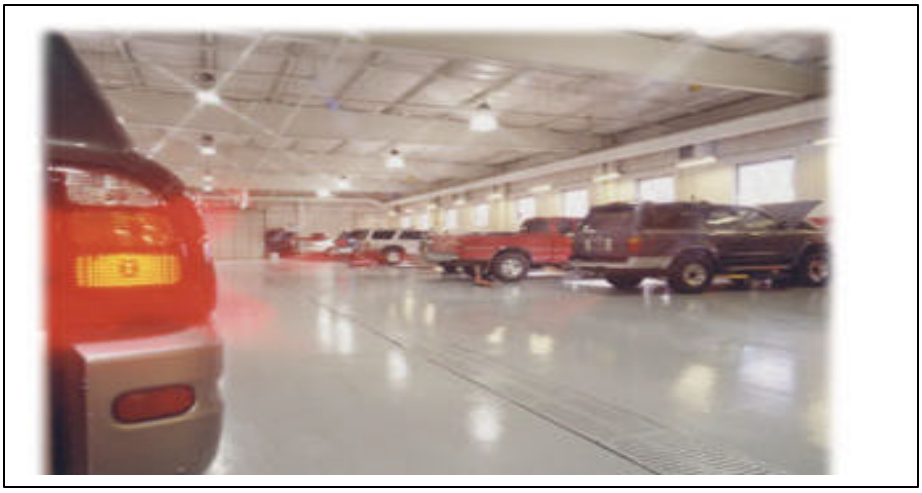
Epoxy Flooring Guide



It is particularly suited for automotive shops where chemical attack from battery acids, lubricants, gasoline and brake fluids must be prevented

Introduction

Pontiac Paint are stocking distributors of ICO Floor Coating, which is a two part, odorless, solvent free, high build epoxy coating that dries to a high gloss, easy to clean finish.

ICO Floor Coating is an ideal floor coating for protecting concrete from forklift motor traffic, moisture penetration and dusting. With its high build characteristics, it can provide years of protection on garage floors, warehouses, manufacturing plants, and distribution centers. It is particularly suited for automotive shops where chemical attack from battery acids, lubricants, gasoline and brake fluids must be prevented.

Surface Preparation

Previously painted floors

Previously painted floors must be evaluated, prior to application of epoxy floor paint. ICO Floor does not contain any solvents, which may dissolve previous alkyd or latex floor paints, but it is applied at about five times the thickness of normal paint, which may stress the existing material. If the old paint comes loose, the new epoxy system will of course come up with it. Old paint should be examined for adhesion and structural stability prior to application of a high performance system such as ICO Floor. Remember, a chain is only as strong as its weakest link.

If the old paint is firm and sound then it should be sanded, removing any loose or peeling old coating, prior to application. If the old coatings identity is unknown, apply a small sample of ICO Floor Coating to test for compatibility and adhesion.

The floor must be clean, and free of dirt, grease, and oil. This is best accomplished by washing with Great Lakes Labs Extra Muscle Cleaner. Reduce Extra Muscle Cleaner one part cleaner to 12 parts warm or hot water. Flood the floor with the mixture and allow approximately five minutes contact time. Scrub with a stiff broom or brush. Rinse well. Repeat this procedure until clean.

Be sure to allow the concrete to dry well before applying ICO Floor.

Bare Concrete Floors

Bare Concrete Floors must be cleaned and etched prior to coating with ICO Floor. New concrete should be cured at least 28 days.

Grease and Oil spots must be treated with PNR1610-8 Pour-N-Restore Oil Stain Remover. Follow label instructions. Repeat as many times as necessary.

After sweeping up loose debris, concrete floors must be cleaned and etched, with Great Lakes Labs "Clean 'n Etch". In a clean plastic bucket add one part Clean 'n Etch to three parts warm water, and mix. Dampen the floor first, and then apply the Clean 'n Etch Solution so that a uniform film of solution covers the floor. Keep the floor wet with the solution for 5-7 minutes, while scrubbing with a broom or brush until. Bubbling stops.

Triple rinse with water. Scrub while rinsing.

Safety first – Always wear protective glasses, and rubber gloves, when working with Clean 'n Etch

Normally concrete requires two to three days of good drying weather, prior to coating with ICO Floor. Good drying weather are days with low humidity, and plenty of air movement. A fan placed in the area to dry helps.

You can test to see if your floor is dry enough, by placing the rubber car mat from your car on the floor, and allowing it to stand overnight. If the area under the mat is visibly darkened, or condensation has formed under the mat, you should allow for additional drying.

Epoxy Floor Paint Application Instructions (without vinyl chips)

Mixing

ICO Floor Coating, and ICO Prime LV are supplied in two containers, and must be mixed together prior to application. Mixing should be done with a "jiffy-type" mixer at low-medium speeds (<750 rpm). Mix Part A first for at least 60-90 seconds and then add Part B and mix for another 60-90 seconds, until uniform in color and consistency. **Do not attempt to mix ICO Floor by hand, or with a stick.**
Do not mix less than the prescribed amount of any ingredient or add solvent to the mix.

Prime Coat

Normally new or uncoated concrete floors are primed with a coat of ICO Prime LV. After thorough mixing apply one full even coat of ICO Primer LV at a spreading rate of 250 to 300 square feet per gallon. Apply with a short nap adhesive cover.
Apply your finish coat of ICO Floor coating when the primer is tacky, but before: 26 hours at 50 F., 14 hours at 77 F., or 5 hours at 90F. If these recoat times are exceeded then sand the primer prior to applying the finish coat.

Finish Coat

Apply ICO Floor with a short nap adhesive roller cover. Apply at approximately 160 square feet per gallon, to achieve 10 mils of coating.

If a second coat is desired, recoat when dry enough to walk on, but before 16 hours at 75 F. If more time has elapsed the first coat should be sanded before recoating.

ICO Aluminum oxide in black or white may be broadcast onto the surface after back rolling to provide more anti-slip profile to the finished surface.

Never apply epoxy floors in the direct sunlight.

ICO FLOOR coating and ICO Sealer have a short pot life (useable working time after the material is mixed). Pot life varies with temperature. You have one hour to use ICO Floor after mixing at 50 F., 40 minutes at 77 F., and 20 minutes at 90 F. Dumping the mixed material onto the floor in a ribbon, then rolling it out, rather than rolling from a bucket or tray can extend this working time. Do not set the mixed buckets upside down to allow all the material on the side of the bucket to drain onto the floor. The product that is attached to the inside of the pail will not be mixed with the converter, and may not dry properly. Simply dump the product out in a ribbon onto the floor, and roll it out.

These products require a minimum of 50 F. to dry and cure. Be careful, the floor will be cooler than the air temperature.

Epoxy Floor Paint Application Instructions (with vinyl chips)

Mixing

ICO Floor Coating, and ICO Prime LV are supplied in two containers, and must be mixed together prior to application. Mixing should be done with a "jiffy-type" mixer at low-medium speeds (<750 rpm). Mix Part A first for at least 60-90 seconds and then add Part B and mix for another 60-90 seconds, until uniform in color and consistency. **Do not attempt to mix ICO Floor by hand, or with a stick.**
Do not mix less than the prescribed amount of any ingredient or add solvent to the mix.

Body or Color Coat

Apply ICO Floor with a short nap adhesive roller cover. Apply at approximately 160 square feet per gallon, to achieve 10 mils of coating.

While the coating is wet broadcast vinyl chips into the coating, by throwing them as high as you can into the air, and allowing them to fall into the wet epoxy. Practice first in an uncoated area to determine the density you desire.

Apply your clear coat when the body coat is dry enough to walk on, but before 16 hours at 75 F. If more time has elapsed the first coat should be sanded before recoating.

Never apply epoxy floors in the direct sunlight.

ICO FLOOR coating, and ICO Sealer have a short pot life (useable working time after the material is mixed). Pot life varies with temperature. You have one hour to use ICO Floor after mixing at 50 F., 40 minutes at 77 F., and 20 minutes at 90 F. Dumping the mixed material onto the floor in a ribbon, then rolling it out, rather than rolling from a bucket or tray can extend this working time. Do not set the mixed buckets upside down to allow all the material on the side of the bucket to drain onto the floor. The product that is attached to the inside of the pail will not be mixed with the converter, and may not dry properly. Simply dump the product out in a ribbon onto the floor, and roll it out.

Clear Coat

When the body coat is dry enough to walk on, but before 16 hours at 75F, sweep up non-adherent vinyl chips, and apply the ICO Sealer at approximately 160 square feet per gallon. Mix and apply the ICO Sealer as described above. It is the same as the ICO Floor coating, only water clear.

Material Cost

Application Equipment You Will Need

One gallon Clean "n Etch GL899G	@ $29.99/gal
One Acid Brush AB	@ $10.99
One roller frame (per coat) ZP800	@ $2.99/each
One roller cover (per coat) WR245	@ $5.49/each
One roll 2" Tape M20202	@ $4.89
One pint Grease & Oil Remover	@ $8.99
One drill mixer ZP750	@ $3.99
Total (figuring 2 frames and covers)	**$75.81**

Material Cost for various garage sizes Pigmented Gray or Beige with Primer

20'x20' = 400 sq. ft. This would require 2 gallons of ICO Prime @ $60.00/gal, and 3 gallons of ICO Floor @ $65.00/gal. Total material cost $315.00

20'x24' = 480 sq. ft. This would require 2 gallons of ICO Prime @ $60.00/gal, and 3 gallons of ICO Floor @ $65.00/gal. Total material cost $315.00

24'x24' = 576 sq. ft. This would require 3 gallons of ICO Prime @ $60.00/gal, and 4 gallons of ICO Floor @ $65.00/gal. Total material cost $440.00

20'x30' = 600 sq. ft. This would require 3 gallons of ICO Prime @ $60.00/gal, and 4 gallons of ICO Floor @ $65.00/gal. Total material cost $440.00

24'x30' = 720 sq. ft. This would require 3 gallons of ICO Prime @ $60.00/gal, and 5 gallons of ICO Floor @ $65.00/gal. Total material cost $505.00

Material Cost for various garage sizes Multi Color Vinyl Chip Floor with Clear Top Coat

20'x20' = 400 sq. ft. This would require 3 gallons of ICO Floor @ $65.00/gal, 3 bags of vinyl chips @ $8.00/ea, and 3 gallons of ICO Sealer @ $65.00/gal. Total material cost $414.00

20’x24’ = 480 sq. ft. This would require 3 gallons of ICO Floor @ $65.00/gal, 3 bags of vinyl chips @ $8.00/ea, and 3 gallons of ICO Sealer @ $65.00/gal. Total material cost $414.00

.

24’x24’ = 576 sq. ft. This would require 4 gallons of ICO Floor @ $65.00/gal, 4 bags of vinyl chips @ $8.00/ea, and 4 gallons of ICO Sealer @ $65.00/gal. Total material cost $552.00

20’x30’ = 600 sq. ft. This would require 4 gallons of ICO Floor @ $65.00/gal, 4 bags of vinyl chips @ $8.00/ea, and 4 gallons of ICO Sealer @ $65.00/gal. Total material cost $552.00

24’x30’ = 720 sq. ft. This would require 5 gallons of ICO Floor @ $65.00/gal, 5 bags of vinyl chips @ $8.00/ea, and 5 gallons of ICO Sealer @ $65.00/gal. Total material cost $690.00