



www.pruett-schaffer.com

PRODUCT NUMBER
80, 84, 85-SERIES

PRODUCT NAME
INDUSTRIAL EPOXY FLOOR COATINGS - PAGE 1 OF 2

General Description:

Pruett-Schaffer 80-, 84-, and 85-Series Industrial Epoxy Floor Coatings are two-component epoxy-phenalkamine and epoxy-cycloaliphatic amine type self-leveling floor coating systems. When applied over properly prepared and primed concrete substrates, they will provide state of the art protection from acids, alkalis, oils, fuels, solvents, salt and moisture. These monolithic coatings can be used in secondary containment areas and on manufacturing floors subject to extreme conditions. Since they are also aesthetically pleasing they can be used in utility areas, lobbies, warehouses, and other spaces subject to heavy pedestrian traffic and soiling.

These primers/midcoats/topcoats/ or optional clear coats are designed to be visually attractive as well as functional. If clearcoating, optional color coordinated vinyl chips may be broadcast under the clear topcoat to create an attractive granite-like appearance. It can be used over new floors to enhance their beauty and serviceability, or over older floors to restore structural integrity and functionality at a fraction of the cost of concrete slab replacement. This product is not intended for consumer use, and should only be used by experienced professional applicators.

Surface Preparation:

Remove heavy accumulations of grease and oil, if present, with solvents or by power washing with a water/detergent solution. Sandblast, shotblast, or otherwise prepare the area to be primed to remove all existing coatings and contaminants that may have penetrated the surface. Vacuum to remove

sand and debris. Acid etching is not recommended as a preparation technique.

Cracks wider than 1/8 inch, spalled, or damaged areas should be repaired with an epoxy surfacing compound, such as Pruet-Schaffer's 12-Series Epoxy Floor Surfacer, or equivalent, before priming.

Application method:

After preparing the floor per instructions, prime with 80-1 Epoxy floor primer (follow application directions for primer). To apply the pigmented midcoat/topcoat, pour approximately 2 or 3 gallons onto the floor at a time with a properly notched squeegee (see Table 1) to obtain the desired film thickness.

Table 1

Squeegee Notch Size	Coating Dry Film Build
3/32 inch	20-mils
7/32 inch	40-mils
7/16 inch	70-mils

Apply using a cross-coat pattern to assure complete wetting of the primed surface, areas adjacent to obstructions may be coated with a brush or short napped roller (1/4 inch or less). If the coating contains entrapped air bubbles due to mixing, they may be released by working it with a spiked roller called a 'porcupine roller'. Spiked shoes are useful for walking on coated areas with minimum disturbance. Do not squeegee or roll when epoxy begins curing.

If decorative vinyl chips are desired, apply while the midcoat is still wet, preferably immediately after application of a 5 gallon batch. The chips should be spread evenly over the surface by hand, where they will partially sink into the coating.

Visually appealing results have been obtained by spreading a mixture of 10 parts black to 7 parts white vinyl chips at a rate of 4 to 5 pounds per 1000 square feet onto the Beige midcoat. If the floor is being poured on successive days, leave a 6 inch wet edge by omitting the vinyl chips until the next pass in order to tie the midcoats tightly together. After allowing for curing, sweep or vacuum away vinyl chips that have not firmly adhered to the midcoat. Apply clear topcoat in a similar manner, following product Technical Data Sheet directions.

Cure Times:

The primer cures tack free in 8 hours at 70 °F; it must be recoated or topcoated within 36 hours or reduced intercoat adhesion may occur.

The midcoat/topcoat cures tack free in 8 to 12 hours with substrate temperatures at 70 °F. It must be topcoated within 48 hours or reduced intercoat adhesion may occur. Longer curing times may be necessary when substrate temperatures fall below 50 °F. If touchup is necessary, it must be done within 24 hours, or reduced adhesion may occur. Light hand sanding with fine paper will aid intercoat adhesion at the touchup areas. Sanded areas will not be visible after the clearcoat is applied.

At 70 °F, the clear topcoat will cure to light foot traffic in 24 hours; ultimate cure will be reached in 7-10 days. If touchup is necessary, it must be done within 24 hours, or reduced adhesion may occur. Light hand sanding with fine paper will aid intercoat adhesion at the touchup areas. Sanded areas will not be visible after the clearcoat is applied.

80, 84, 85-SERIES INDUSTRIAL EPOXY FLOOR COATINGS - PAGE 2 OF 2

Recommended application thickness: This 3 part coating system should be applied at the following film thicknesses:

20-40 mils

Traffic: pedestrian and light vehicle traffic (drum dollies, carts, etc.) such as seen in laboratories, building lobbies, etc.

Chemical exposure: incidental chemical exposure such as cleaning compounds, household chemicals, etc.

40-60 mils:

Traffic: light to moderate vehicular traffic and abrasion service such as golf cart type vehicles or small forklift trucks.

Chemical exposure: moderate chemical exposure such as food service areas, laundries, light duty warehouses, etc.

60-80 mils:

Traffic: heavy vehicle traffic such as large forklift trucks or severe abrasion service as seen in heavy duty warehouses and vehicle garages.

Chemical exposure: extreme or prolonged chemical exposure such as secondary containment service, manufacturing floors, aircraft hangars, etc.

Specifications: Typical specifications appear in the table below. Color choice will result in slight variations in the 84-Series data.

Typical Specifications	80-1 Epoxy Floor Primer	84-Color Epoxy Floor Midcoat/topcoat	85-13586 Clear Topcoat(optional)
VOC, lb./gallon:	0.11	0.11	0.13
Weight per gallon, lbs. ASTM D-1475:	10.3	11.5	9.17
Non Volatile % by weight:	98.9	99.1	98.5
Non-Volatile % by volume:	98.5	98.5	98.1
Mixing Ratio A to B components by volume:	1:1	1:1	2:1
Pot Life, minutes, @ 70F, mixing volumes supplied:	60	60	30-40
Viscosity, mixed system, Krebs units:	85-95	135-145	90 Max
Theoretical coverage, ft ² /gal/mil, dry film:	1580	1580	1573
Recommended dry film thickness, mils:	5-20	20-80	10-15
Flash Point, °F:	>141	>141	>141
Elcometer adhesion, psi ASTM D-4541:	475	475	NA
Taber Abraser, CS-17 wheel 100 gr., 1000 cycles:	Not Applicable	Not Applicable	48 mg
Decontaminability Factor, ASTM D-4256-83:	Not Applicable	Not Applicable	98.4%

THIS INFORMATION RESULTS FROM TESTS CONDUCTED IN A LABORATORY UNDER LABORATORY CONDITIONS. DIFFERENT RESULTS MAY BE OBTAINED IN COMMERCIAL USE OF THIS PRODUCT UNDER FACTORY OR FIELD CONDITIONS. PRUETT-SCHAFFER MAKES NO WARRANTY CONCERNING THE SUITABILITY OF THIS PRODUCT FOR THE END USE CONTEMPLATED BY THE BUYER, EXCEPT THAT THE PRODUCT SHALL BE IN COMPLIANCE WITH THE TECHNICAL SPECIFICATIONS PRESENTED HEREIN.

REVISED 05-22-2000