Legacy Industrial
Heavy Duty Floor Solutions

TECHNICAL DATA- Legacy "SD" Premium Epoxy Coating 100% Solids High Build

PRODUCT DESCRIPTION:

Legacy Industrial's SD coating is a premium, two component 100% solids epoxy colored coating designed for applications where a high build colorfast impact resistant floor is needed. This is the ultimate coating for build thickness and "high hide" without using an aggregate filler.

RECOMMENDED FOR:

Recommended for a high build topcoat or basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

SOLIDS BY WEIGHT:
100% (+/- 1%)

SOLIDS BY VOLUME:
100% (+/- 1%)

VOLATILE ORGANIC CONTENT:
Nearly zero pounds per gallon

STANDARD COLORS:
White, off white, light gray, medium gray, tile red, and beige

RECOMMENDED FILM THICKNESS:
12-30 mils

COVERAGE PER GALLON:
53-130 square feet per gallon @ 12-30 mils

PACKAGING INFORMATION
3 gallon kits (2.9 – 3.0 gallons net approximately)
15 gallon kits (14 – 15 gallons net approximately)

MIX RATIO:
12 pounds (1 gallon) part A to 4.15 pounds (.50 gallons) part B (volumes approx.) (standard colors)

SHELF LIFE:
1 year in unopened containers

FINISH CHARACTERISTICS:
Gloss (70-95 at 60 degrees @ Erichsen glossmeter)

ABRASION RESISTANCE:
Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 32 mg loss

FLEXURAL STRENGTH:
5,400 psi @ ASTM D790

COMPRESSIVE STRENGTH:
9,100 psi @ ASTM D695 – 1/2 "X 1/2" bars

ADHESION:
450 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:
Mixed = 1300-2300 cps (typical, most colors)

DOT CLASSIFICATIONS:
Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII"

TENSILE STRENGTH:
4,800 psi @ ASTM D638

ULTIMATE ELONGATION:
3.1%

GARDNER VARIABLE IMPACTOR:
50 inch pounds direct – passed

HARDNESS:
Shore D = 80

CURE SCHEDULE:
pot life – 1 1/2 gallon volume..... 30-50 minutes @ 70° F
tack free (dry to touch).....5-8 hours @ 70° F
recoat or topcoat.....8-12 hours @ 70° F
light foot traffic.....12-14 hours @ 70° F
full cure (heavy traffic)... .....24 – 36 Hours @ 70° F

APPLICATION TEMPERATURE:
60-90 degrees F with relative humidity below 85%

CHEMICAL RESISTANCE:

REAGENT	NEAT	Clear Coated**
Aviation Gasoline	B	D
Unleaded Gasoline	C	D
Diesel/Heating Oil	B	D
Jet Fuel	B	D
Brake Fluid	C	E
Motor Oil	E	E

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER:
Legacy's Standard or HD Coating or other suitable primer coats.

TOPCOAT:
Optional – **HD356VOC, HD6000, HD 344 or HD322 urethane

LIMITATIONS:
*Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
*Light or bright colors may require a suitable primer or topcoat to achieve a satisfactory hide.
*Substrate temperature must be 5°F above dew point.
*All new concrete must be cured for at least 30 days prior to application.
*Apply a suitable primer before using this product as a coating.
*See reverse side for application instructions.
*Physical properties are typical values and not specifications.
*See reverse side for limitations of our liability and warranty.

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MIXING AND APPLICATION INSTRUCTIONS (SD)

1) **PRODUCT STORAGE:** Store product at normal room temperature. Continuous storage should be between 60 and 90 degree F. Low temperatures or temperature fluctuations may cause product crystallization.

2) **SURFACE PREPARATION:** The most suitable surface preparation would be a diamond grind, acid etch is an alternative and effective method. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by ordering a moisture kit from Legacy Industrial.

3) **PRODUCT MIXING:** This product has a mix ratio of 12# part A to 4.15# part B or two parts A to one part B by volume for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Improper mixing may result in product failure.

4) **PRIMING:** A suitable primer should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause out-gassing and possible surface defects.

5) **PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

6) **RECOAT OR TOPCOATING:** If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be de-glossed to insure a trouble free bond prior to application of recoats or topcoats. Colder temperatures will require more cure time for the product before recoating or top-coating can commence. Before recoating or top-coating, check for epoxy blushes (a whitish, greasy film or de-glossing). If a blush is present, it can be removed by any standard detergent cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use as a topcoat.

7) **CLEANUP:** Use xylol.

8) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

9) **RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our product is manufactured to the specifications as stated her or in other publications. All other information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. ***NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.*** *We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Any use or application other than recommended herein is the sole responsibility of the user. Uncured epoxy resins, polymers and their curing agents may be* ***ALKALINE, TOXIC or BOTH,*** *depending on the particular system. They may cause* ***ALLERGIC REACTIONS or HYPERSENSITIVITY REACTIONS. BEFORE USING*** *any material,* ***READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.*** *COPYRIGHT Legacy Industrial Products LLC.*