

TECHNICAL DATA

AD243SL

NOVOLAC EPOXY SELF LEVELING

PRODUCT DESCRIPTION:

AD243SL is a two component plus aggregate colored high solids novolac epoxy coating designed for applications where splash and spills of acids, chemicals and solvents occur.

RECOMMENDED FOR:

Recommended for a high build resurfacing for traffic areas as well as resurfacing chemical spill areas.

SOLIDS BY WEIGHT:

96% (+/- 1%) (liquids mixed without aggregate)

SOLIDS BY VOLUME:

94% (+/- 1%) (liquids mixed without aggregate)

VOLATILE ORGANIC CONTENT:

0.40# per gallon (mixed liquids without aggregate)

STANDARD COLORS:

Light gray, medium gray, and tile red

RECOMMENDED FILM THICKNESS:

1/16" applied with a special serrated squeegee

COVERAGE PER GALLON:

A 1.5 gallon (liquid) kit will yield 65-85 square feet

PACKAGING INFORMATION

1 1/2 gal. kit (1 gal. part A and 1/2 gal. part B plus 15# aggregate)

Also available in a 15 gallon kit.

MIX RATIO:

10.15 pounds part A to 4.2 pounds part B plus 15# aggregate (liquids are approximately 2:1 by volume)

SHELF LIFE:

1 year in unopened containers

FINISH CHARACTERISTICS:

Gloss (>40 at 60 degrees @ Erichsen glossmeter)

FLEXURAL STRENGTH:

9,610 psi @ ASTM D790

COMPRESSIVE STRENGTH:

9,900 psi @ ASTM D695

TENSILE STRENGTH:

6,680 psi @ ASTM D638

ADHESION:

425 psi @ elcometer (concrete failure, no delamination)

ULTIMATE ELONGATION:

4.7%

HARDNESS:

Shore D = 88

GARDNER VARIABLE IMPACTOR:

50 inch pounds direct – passed

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 20 mg loss

VISCOSITY:

Mixed = 2200-2700 cps (typical)

DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

HEAT DEFLECTION TEMP:

115.5 degrees F, ASTM D648

CURE SCHEDULE: (70° F)

pot life – (1 1/2 gallon volume)25-35 minutes

tack free (dry to touch)5-7 hours

recoat or topcoat.....5-10 hours

light foot traffic.....10-18 hours

full cure (heavy traffic).....2-7 days

APPLICATION TEMPERATURE:

60-95 degrees F with relative humidity below 90%

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	D
1,1,1 trichloroethane	C
MEK	C
methanol	C
ethyl alcohol	C
skydrol	C
10% sodium hydroxide	E
50% sodium hydroxide	E
10% sulfuric acid	E
70% sulfuric acid	C
10% HCl (aq)	D
5% acetic acid	D

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:

Recommended AD247

TOPCOAT:

None recommended

LIMITATIONS:

- *Color stability or gloss may be affected by environmental conditions such as high humidity, low temperature, or chemical exposure.
- *Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
- *Apply a suitable primer before using this product.
- *This product is not UV color stable and exposure to lighting (sodium vapor) can cause discolorations.
- *Data based on neat resin without aggregate
- *Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying. A test patch is recommended.
- *Product can develop surface irregularities in leveling in combination to some chemical contamination or substrate compositions.
- *Substrate temperature must be 5° F above dew point.
- *All new concrete must be cured for at least 30 days prior to application.
- *Results of use are contingent upon proper application. Test patches are recommended.
- *See reverse side for application instructions.
- *Physical properties are typical values and not specifications.
- *See reverse side for limitations of our liability and warranty.

- 1) **PRODUCT STORAGE:** Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures or great temperature fluctuations may cause product crystallization.
- 2) **SURFACE PREPARATION:** The most suitable surface preparation would be fine brush blast (shot blast) to remove all laitance and provide a suitable profile. 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 placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.
- 3) **PRODUCT MIXING:** This product has a mix ratio of 10.15# part A to 4.2# part B and 15# aggregate 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 liquid parts are combined, add in the provided aggregate and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate.
- 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 outgassing and possible surface defects.
- 5) **PRODUCT APPLICATION:** The mixed material can be applied by a serrated squeegee at the recommended thickness, then backroll the applied liquids with an air release roller if necessary. Finally, back roll (very lightly) with a conventional roller tool. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.
- 6) **RECOAT OR TOPCOATING:** Recoats or topcoats of this product are normally unnecessary. However, if you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off and then the surface should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film, or deglossing.) If a blush is present, it can be removed by any standard detergent cleaner prior to topcoating or recoating. Multiple coats of this product are acceptable and can be used to achieve greater chemical resistance and build.
- 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 products are manufactured to strict quality assurance specifications and that the 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. Listed physical properties are typical and should not be construed as specifications. **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 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. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***

COPYRIGHT4/21/03 NATIONAL POLYMERS INC.