

POLY SAFE 833NP

FLEXIBLE COLOR COAT

TECHNICAL DATA/MATERIAL SAFETY DATA

MANUFACTURER: SPRAY-LINING, a division of MFC1 Group **EMERGENCY** 1-877-891-8741
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MIXING AND APPLICATION

INSTRUCTIONS (NP830 Coating)

Application Instructions CONTACT YOUR TECH SUPPORT PERSON FOR DETAILS, FILLER COMBINATIONS & MIXING WITH OTHER MATERIALS. THESE ISSUES CAN CHANGE CHARACTERISTICS DRAMATICALLY.

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

SURFACE PREPARATION: The most suitable surface preparation would be a 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.

PRODUCT MIXING: This product has a mix ratio of 8.83# part A to 9.5# part B or one part A to one part B by volume. 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.

PRIMING: A primer is recommended in most applications to prevent out-gassing and to insure a dry substrate surface.

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. Because this material has a short pot life, it is beneficial in some applications to remove the material from the mixing pail by pouring the material onto the substrate and spreading it along the floor. Spreading out the material will allow the applicator more time to work with the material before it begins to cure. 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.

RECOAT OR TOPCOATING: A topcoat is not required. If you recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. It is advisable to test topcoats for suitability prior to application. Colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating check for surface contamination. If contaminants are present, it can generally be removed by any standard detergent cleaner prior to topcoating or recoating.

CLEANUP: Use basic solvents

FLOOR CLEANING: No cleaners in laboratory settings have affected this cured formula. Still test 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.

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.

PRODUCT DESCRIPTION:

Flexible Color Coat is a two component 100% solids polymer system designed for applications where a resilient flexible seal coat is needed. The two component material (standard) is supplied with a gray component and a clear component.

RECOMMENDED FOR:

Recommended for concrete or cement substrates or permeable wood, fibers and plaster in medical, lab or general industry.

NOT RECOMMENDED FOR:

Not recommended for extreme industrial solid friction.

SOLIDS BY WEIGHT:

100%

VOLATILE ORGANIC CONTENT:

Nearly zero pounds per gallon

COLORS AVAILABLE:

Medium gray (mixed) Part A is gray and Part B is clear.

RECOMMENDED THICKNESS:

20-60 mils

COVERAGE:

27 - 80 square feet per gallon @ 20-60 mils

MIX RATIO:

2 to 1 to 3 to 1 by volume

SHELF LIFE:

18 months in unopened containers properly stored at normal room temperature. (mix before use)

HARDNESS:

30-40 Shore D typical

COMPRESSIVE STRENGTH:

2,300 psi

TENSILE STRENGTH:

1,984 psi

ELONGATION AT BREAK:

100+%

IMPACT RESISTANCE:

Excellent

ABRASION RESISTANCE:

18.1 mg loss with a 1000 gram total load at 1000 revolutions with a CS17 wheel

ADHESION:

370 psi (elcometer) – no delamination/concrete failure

VISCOSITY:

Mixed= 500 cps – 1,400 cps (typical)

DOT CLASSIFICATIONS:

Part A “not regulated”

Part B “not regulated”

CURE SCHEDULE: (70°)

pot life (150 gram mass)	25-35 minutes
recoat or topcoat.....	4-7 hours
light foot traffic.....	8-12 hours
full cure (heavy traffic).....	1-3 days

APPLICATION TEMPERATURE:

50-90 degrees F with relative humidity below 90%

CHEMICAL RESISTANCE:

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

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:

Recommend a suitable epoxy primer

TOPCOAT:

None required.

LIMITATIONS:

- *Color stability after 12 years may be affected by environmental conditions such as high humidity, chemical exposure or exposure to certain types of light such as sodium vapor lighting.
- *This product is intended as a flexible protective membrane and not as a decorative coating.
- *Substrate temperature must be 5°F above dew point.
- *All new concrete must be cured for at least 30 days prior to application
- *Must be mixed well.
- *Apply sample installation at an off-sight location before using material in a commercial setting to become familiar with material limitations.

*Product is not UV color stable.