



DESCRIPTION

ECOLAB-POLY83 is a two-component (1:1) polyaspartic floor coating system which has an indistinct odor. The **ECOLAB-POLY83** is used as a base coat (colored) and a clear top coat using a common hardener. It provides a quick turnaround with very rapid curing time (tack free of approx.60-80 minutes) under normal conditions allowing the installation of a flooring system in a single day. The product displays excellent curing capability at very low temperature levels. This product offers superior mechanical and chemical properties and is low maintenance. It also displays a superior aesthetic finish and excellent UV stability. We recommend the utilization of two- or three-coat systems

WHERE TO USE

ECOLAB-POLY83 provide excellent results for a number of applications; Parking garage floors, other residential applications, commercial centers, office buildings, retail stores, manufacturing facilities, food processing and preparation plants, public facilities including hospitals and schools.

BENEFITS

Some of the most important benefits are;

- Indistinct odor
- Potential for LEED eligibility
- High solids content 80% and 90%
- Excellent UV, non-yellowing and impact resistance
- 1:1 system with common hardener for the base coat and top coat
- Possibility to install base coat and top coat in a single workday
- Possible to obtain higher or lower coverage rates depending on the needs
- Possible to install two- or three-coat systems using a single product
- Easy to install due to the very low viscosity of the product
- High chemical and mechanical resistance
- Impermeability / low moisture sensitivity
- Superior gloss finish
- High density of the product prevents dirt penetration resulting in low maintenance

TECHNICAL PROPERTIES

Hardness, Shore D	ASTM D2240	>65
Tensile Strength		8000 psi
DE 500 hr	ASTM 3424	<2.0
Taber Abrasion	(100 cycl,CS17)	58 (mg loss)
Gardner Impact	(Dir/Rev)	>140 lbs

HANDLING PROPERTIES

Mix Ratio	1A : 1B
Packaging	3.5 L / KITS 7L
Color	Clear or colored

Wet Coverage / gallon	Mils	Sq. Ft.
Gal	4	400
	5	320
	6	267
	7	229
	8	200
	9	178
	10	160
	11	145
	12	133
	13	123
	14	114
	15	107
	16	100

SHELF LIFE

Six months in original unopened factory pails, under normal storage Conditions.

CURE TIME

- Working time : 15-25 min 22°C and 55% rel. hum
- Tack free : 60-80 min 22°C and 55% rel. hum.
- Hard dry : 2 hours
- Light foot dry: 4-7 hours
- Light traffic: : 2-3 days
- Full cure: : 2 weeks

MIXING

Before final mixing, pre-mix parts A and B individually at low speed. Special attention must be paid to colored versions of the product since pigments may have separated from the rest of the formulation during storage. Mixing should be done until the color is uniform.

Then, mix one part of A and one part of B together at low speed in a separate container. The mixing container must be clean and free of any outside particle. Mix thoroughly for three minutes using a low speed drill (300-450 rpm) to minimize the entrapping of air. It is recommended to activate the mixer in the reverse mode after the first minute in order for the liquid to mix from the bottom of the mixing can to the top. Make sure to scrap sides and bottom of mixing container so no unmixed material remains. Mix only the necessary quantity to be used according to the specified pot life / working time.

APPLICATION

Concrete should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion. Concrete should be cured at least 28 days before applying the coating system.

Proper testing procedures should be practiced with regards to soil acidity and moisture vapor transmission. Take a pH reading to ensure concrete is neutral (a reading between 5 and 9 is acceptable). Use a calcium chloride test to measure moisture vapor transmission. Readings of 3.5 lbs/1000 sq. ft. during a 24-hour period or less are acceptable for applying coatings. Higher results should receive a moisture mitigation system.

Surface must be shot blasted or prepared with an equivalent mechanical means in line with CSP-2. Ensure the surface is free of contaminants, and the pores are open to allow the product to penetrate. If shot blasting procedure is undertaken, it may produce excessive texture to the surface which may show through the coating.

If the product is applied over epoxy, it is imperative to read the epoxy manufacturer data sheet on recoat properties for proper adhesion. Epoxy should be sanded with a proper floor machine. A mechanical bond to a sanded surface is required and the pores of the existing coating must be opened for better adhesion. Wiping properly prepared surface with alcohol will ensure no loose dust particles from the sanding process are present.

When using an ADHESIVES LAB flake decorative system, the base coat with the flakes should be sanded and cleaned after appropriate hardness is reached prior applying the top coat. Contact us for more details on how to use the product with flake systems.

CLEAN UP

Cured product may be disposed of without restriction. Excess liquid A and B material should be mixed together and allowed to cure, then disposed of in the normal manner. Product may be disposed in accordance with provincial and federal regulations. Uncured material can be removed with proper solvent. Follow the solvent manufacturer instructions for use and warnings.

LIMITATIONS

Requires a dry substrate. This product should not be applied to concrete substrates that show high levels of moisture vapor transmission. Although this product may be applied in a wide range of thickness, limitations may apply when taking into consideration curing time. It is recommended to use 100% solids products and avoid solvent based products for installations beyond normal thickness levels for concrete floor coating systems (beyond 20-30 mils).

It is also recommended to do proper testing if a non conventional installation is considered. Everything else being equal, thicker is the film, longer is the curing time. This product may dry extremely fast in a high humidity environment. Temperature will also impact curing time. Curing time may extend significantly at very low temperature levels.

WARRANTY

The recommendations made and the information here in is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Adhesiveslab Products, makes no warranties, expressed or implied, as uses and applications are beyond our control. Adhesiveslab Products, shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Adhesiveslab Product's liability, if any, is limited to a refund of the purchased price or replacement of that portion of the merchandise proven to be defective. Adhesiveslab Products shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability. **This warranty may not be modified or extended by representatives of Adhesiveslab Products, its distributors or dealers.**