

ENDURACOAT EP SEALER

EPOXY-POLYAMIDE COATING

Equal parts of Part A and Part B mixed prior to application. Masonry sealer and adhesion promoter.

GENERAL PROPERTIES: Penetrating clear primer/sealer for concrete surfaces prior to application of surfacers or polyurethane membranes. Excellent fast-drying material. Priming and sealing action provides excellent adhesion for surfacers and polyurethane membranes.

RECOMMENDED APPLICATIONS: As a curing compound or form release agent. For application on "green" concrete to retard the escape of moisture during cure period. Excellent for use as a form coating on plywood or steel forms. Application prior to surfacing assures tight adhesion between concrete and surfacers or membranes. Compatibility with other coatings, surfacers and polyurethane membranes eliminates need for form release oils or curing oils.

NOT RECOMMENDED FOR: Immersion in strong acids or solvents or in corrosive areas without recommended topcoat.

CHEMICAL RESISTANCE: (With suitable topcoat)

<u>E x p o s u r e</u>	<u>Splash & Fumes</u>
Acids	Fair
Alkalies	Good
Solvents-Aliphatic	Good
Salt	Very Good
Water	Very Good
Solvent-Aromatic & Ketone	Fair
Oil and Grease	Excellent

TEMPERATURE RESISTANCE: (Non-immersion)

Continuous:	82°C
Non-continuous:	104°C
May yellow at temperatures above:	66°C

FLEXIBILITY: Very Good

WEATHERING: Good (chalks)

ABRASION RESISTANCE: Excellent

SUBSTRATES: Apply over suitably-prepared steel, wood, concrete, masonry or others as recommended.

May be topcoated with catalysed epoxies, phenolics, polyurethane membranes or others as recommended. Consult Polymer Group for specific recommendations.

COMPATIBILITY: Can be applied over most epoxies. For specific recommendations, contact Polymer Group Ltd.

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL:

	<u>By Volume</u>
Enduracoat EP Sealer	28% ± 2%

RECOMMENDED DRY FILM THICKNESS:
50 microns

THEORETICAL COVERAGE:

11.2 sq. m/l at 25 microns
5.6 sq. m/l at 50 microns

* **Note:** Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

SHELF LIFE: Twenty-four months minimum when stored at 24°C.

COLOUR: Only available in Clear.

Prices may be obtained from Polymer Group Ltd.

WEIGHTS (approximate):

	<u>8-l kit</u>	<u>20-l kit</u>
Enduracoat EP Sealer	8 kg	39 kg
Thinner # P2	4 kg	20 kg

FLASH POINT: (Pensky-Martens Closed Cup)

Enduracoat EP Sealer Part A	1°C
Enduracoat EP Sealer Part B	8°C
Thinner # P2	-4°C

April 2016 replaces June 2013

APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instruction sand application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

SURFACE PREPARATION: Remove any oil or grease from surface to be coated with clean rags soaked in Thinner P2 in accordance with SSPC-SP 1-82.

Steel: For non-immersion service, abrasive blast to a Commercial Finish in accordance with SA2 (SSPC-SP 6-85) to a degree of cleanliness in accordance with SA2 (NACE #3) to obtain a 25- to 50-micron blast profile.

Concrete: As a curing compound: Apply immediately after forms have been stripped, or on floors as soon as puddled water has evaporated and the concrete can support foot traffic.

Form release compound: Use clean, dry, untreated Grade 1 plywood. Apply at least two coats, thin first coat 50%. Refresher coats may be applied as needed.

Primer - Remove fins and other protrusions by stoning, sanding or grinding. Remove form oils, incompatible curing agents and hardeners by abrasive blasting. For large holes or pits, use an epoxy surfacer for levelling and uniformity prior to application of Enduracoat EP Sealer.

Immersion Service - Abrasive blast to open all voids and obtain a surface similar to medium grit sandpaper (horizontal surfaces may be acid etched). Blow or vacuum off sand and dust.

Non-Immersion - Horizontal surfaces must be acid-etched or abrasive blasted to remove laitance. For other surfaces, blow off with compressed air to remove dust.

Wood: Should be free of chips and splinters. Excessively rough wood should be sanded before coating.

MIXING: Power mix separately, then combine and mix in the following proportions:

	<u>8-l kit</u>	<u>20-l kit</u>
Enduracoat EP Sealer Pt A	4 l.	10 l.
Enduracoat EP Sealer Pt B	4 l.	10 l.

For spray or brush application, may be thinned up to 25% by volume with Thinner P2. When coating wood, the first coat should be thinned 50% by volume with Thinner P10. [Allow a one-hour stand-in time prior to application.] Use of thinners other than those supplied or approved by Polymer Group Ltd. may adversely affect product performance and void product warranty whether express or implied.

POT LIFE: Twenty-four hours at 24°C and less at higher temperatures. Pot life ends when coating becomes too viscous to use.

APPLICATION TEMPERATURES:

	<u>Material</u>	<u>Surfaces</u>	<u>Ambient</u>	<u>Humidity</u>
Normal	18-29°C	18-29°C	18-32°C	30-85%
Minimum	10°C	10°C	4°C	0%
Maximum	32°C	66°C	49°C	95%

Do not apply when the surface temperature is less than 3°C above the dew point. Special thinning and application techniques may be required above or below normal conditions. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

NOTE: The following equipment has been found suitable; however, equivalent equipment may be substituted.

Conventional: Use a 3/8" minimum I.D. material hose. Hold the gun approximately 12-14 inches from the surface and at a right angle to the surface.

<u>Mfr & Gun</u>	<u>Fluid Tip</u>	<u>Air Cap</u>
Binks #18 or #62	63B	63PB
DeVilbiss P-MBC or JGA	FX	704

Airless: Use a 3/8" minimum I.D. material hose. Hold gun approximately 18-20 inches from the surface and at a right angle to the surface.

<u>Mfr & Gun</u>	<u>Pump*</u>
DeVilbiss JGB or JGN	QFA-514 or QFA-519
Graco 205-591 or 208-663	B5-18 or B8-36

* Teflon packings are recommended and are available from pump manufacturer. Use a .013 - .015" tip with 2000 psi.

BRUSH OR ROLLER: Use a natural-bristle brush or short-nap roller with phenolic core.

DRYING TIMES BEFORE TOPCOATING:

<u>Temperature</u>	<u>Minimum</u>	<u>Maximum*</u>
4°C	24 hours	48 hours
10°C	12 hours	42 hours
16°C	6 hours	36 hours
24°C	2 hours	24 hours
32°C	2 hours	18 hours

* If maximum drying times are exceeded, surface must be wiped with Thinner P2. If more than one week has elapsed, another coat of Enduracoat EP Sealer must be applied before topcoating. Failure to take these measures may result in poor adhesion or delamination between coats.

CLEANUP: Use Thinner P10.

STORAGE CONDITION: (Store Indoors)

Temperature: * 7-43°C Humidity: 0-90%

* Return to minimum application temperature before use.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NON-SPARKING SHOES.

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