

## PRODUCT DESCRIPTION

Res-Tek EPO-Guard™ EPO-290 coating is a high performance amine cured epoxy floor coating system that provides a high build, extremely high wear resistant top coat. 100% solid with self leveling properties and blush resistance. Formulated specifically to resist chlorinated solvents such as Trichlorethylene and Perchlorethylene. Cures under cool damp conditions. 20 - 30 mil recommended mil thickness.

## TYPICAL USES

Res-Tek EPO-290 is ideally suited for coating floor areas such as:

- Drycleaners
- Chemical process areas
- Food and beverage processing plants
- Breweries
- Solvent troughs

## PHYSICAL CHARACTERISTICS

**Color (Mixed):** Pebble and concrete gray

**Viscosity (Mixed):** 2,500 cps

**Pot Life (77°F):** 30 min.

**Cure Time (75°F):** 24 hrs (foot traffic and recoat), 48 hrs (full service)

**Shelf Life:** 1 yr. from ship date (unopened)

**Yield:** 80 sq. ft. / gallon at 20 mils (recommended minimum) Estimates may vary according to conditions of surface.

**Flexural Strength:** 14,900 psi

**Tensile Strength:** 9,900 psi

**Elongation:** 8%

**Comprehensive Strength:** 12,200 psi

**Heat Distortion:** 147° F

**Temperature Limit:** 180° F

**Chemical Resistance:** Refer to chart

## PROPERTIES

- Excellent all-around resistance to chemicals (acids, alkalis and solvents)
- 100% Solids
- USDA Approved
- Low viscosity
- Self leveling properties
- Readily cures with short dust-dry time even at low temperatures
- Excellent surface appearance
- Easily squeegeed or roller applied

## APPLICATION OF MATERIALS

1. Add component B to component A, mix thoroughly for at least 3 minutes. For best results use a drill motor / mechanical mixing paddle operated at low speed.
2. Using a squeegee or roller, spread a full even coat of EPO-290 coating onto surface.
3. When used as a non-skid coating, broadcast non-skid material onto coating while still tacky. Consult Res-Tek technical representative for material recommendations. Because of the self-leveling and rheological characteristics of EPO-290, it is not recommended to use sand aggregates as a non-skid broadcast. These materials will not float on the surface, which will affect product performance and also produce inconsistent shadowing.

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# EPO-Guard™ EPO-290 Novolac Epoxy Coating

4. Use xylene or acetone for cleaning tools and equipment soon after use. Do not use solvents on hands or other parts of body. Clean hands and other exposed areas with soap and water.
5. Do not thin with solvents.
6. Do not apply in temperatures below 45° F.
7. Cracks and damaged concrete should be repaired prior to application.
8. Floor surface must be structurally sound, free from hydrostatic pressure, contaminants, curing compounds or other materials which may prevent proper adhesion.

## CHEMICAL RESISTANCE

Solvents	<u>% weight gained or lossed</u>
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Xylene:	2.1
Trichlorethylene:	2.0
Perchlorethylene:	1.0
Gasohol:	0.3
ME:	7.7
Ethyl Alcohol:	3.2
Methyl Alcohol:	2.3
Skydrol:	0.1
Water:	0.2
5% Detergent Solution:	0.2

### Acids

10% Sodium Hydroxide:	0.6
50% Sodium Hydroxide:	0
10% Sulfuric Acid:	1.5
50% Sulfuric Acid:	0.1
10% Hydrochloric Acid:	0.9
20% Nitric Acid:	1.5
10% Acetic Acid:	4.8

## HEAT RESISTANCE

Figures reflect prolonged exposure: These materials can be used in higher heat applications where only incidental exposure occurs. The heat resistance of EPO-290 is dependent upon its cure cycle. The higher the cure temperature the better its resistance.

## SURFACE PREPARATION

For Steel Surface - Remove oil with degreaser solvents or detergent prior to surface preparation. For best results, sandblast all metal surfaces. Remove all sand and dust from surface. Surface should be dry.

For Concrete Surface - Remove all oil, dirt, and contaminates. Sandblast, acid etch, or mechanically remove laitance from surface. Surface should be dry and free of dust. EPO-203 is recommended as a primer.

**Note:** Under certain conditions hydrostatic pressure may exist in concrete flooring. This phenomena is usually related to sudden rises in water tables (heavy rains), which can cause severe bubbling and poor adhesion of applied coatings. This situation is best approached by scheduling coating applications during extended periods of dry weather.

## STANDARD PACKAGING

1 gallon kit\*

(1) 1 gallon can part A (short filled)

(1) 1 quart can part B

4 gallon kit\*

(1) 5 gallon pail part A (short filled)

(1) 1 gallon can part B

\* Mix full kits only

## STORAGE CONDITIONS

Store material in a cool and dry place out of direct sunlight. For best results material should be stored between 70°F and 90°F. Do not store near open flame or ignition source. Read and understand all product labels and SDS prior to use.

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