

## Epoxy | Solvent Base For Concrete & Floor

### DESCRIPTION

Paint for a high performance floor and walls, recommended for new and old floors, subjected to high mechanical stress (parking areas, garage, frequently used drive ways, industrial floors.) and excellent adherence to concrete and to composite materials (polyester, silico marabous materials). Epoxies are known for their excellent adhesion, chemical and heat resistance, fire retardant system.

### BASIC TECHNIQUES

The following basic techniques are common to most repair or building projects, regardless of the type of structure or material you are working with.

The success of the application depends not only on the strength of the epoxy, but also on how well the epoxy adheres to the surface to witch it is applied. Three steps of surface preparation are necessary:

**Clean:** Bonding surfaces must be free of any contamination. such as grease, oil, wax, or mold release. Clean contaminated surfaces with ordinary thinner. Wipe the surface with paper towels before the solvent dries.

**Dry:** All bonding surfaces must be as dry as possible for good adhesion. Accelerate drying by warming the bonding surface with a hot air gun or heat lump. Watch for condensation when working outdoors.

**Sanded:** surfaces should be sanded.

### PHYSICAL CONSTANTS

- Code : 2000
- Color : Refer to our color chart
- Density : 1.35 Kg/L.
- Viscosity : 120 KUS.
- Binder : Epoxy resin.
- Pigments : Titanium plus inert fillers.
- Solid contains : 68 %.
- Flash point : 65 C.
- Solid by volume : 52%

### ADVANTAGES

- Excellent chemical resistance (alkali or acid)
- Combined with inert filler for maximum abrasion resistance, and enhance strong and flexible laminate
- Suitable for multi-layer applications
- Abrasion resistant
- Durable
- Can support temperature up to 50 C
- Used for parking and school laboratories
- Used as self-leveling for high thickness

### GENERAL SURFACE PREPARATION

Area to be treated must be clean and free from dirt, oil, grease, moss and other foreign substances.

When it is apply to the floor, the epoxy forms a three dimensional network:

- Pushing upward: to give surface protection.
- Towards the sides: it spreads easily
- Downwards: it reinforces the cohesion of the substrate

This "Molecular fusion" gives it adherence, indeed it allows it to penetrate the substrate and to harden the concrete and prevent it from powdering.

The epoxy resists attack of battery acid or from diluted lime and it is very good resistance to chlorinating agents, anti-carbonated, oils, gasoline and high humidity.

## Epoxy | Solvent Base For Concrete & Floor

### APPLICATION METHOD

Two coats are required for normal use. Mix one gallon of hardener with four gallons of epoxy enamel. Wait 20 mm and thin with thinner (100%) for the first coat. Then apply an other coat diluted with 10-15% thinner. To adjust irregularities of surface, apply putty for epoxy for thickness not more than 200-300 micron, to obtain good leveling.

### COVERAGE

- 1- Thickness 250 micron
  - Apply a primer coat diluted with 100 % thinner
  - Apply a thick coat diluted with 20 % thinner
- 2-Thickness 500 micron
  - Apply a primer coat diluted with 100% thinner
  - Apply a thick coat diluted with 20% thinner
  - Apply a thick coat diluted with 20% thinner
- 3-Epoxy with putty
  - Apply a primer coat diluted with 100% thinner
  - Apply two coats of putty
  - Apply a second primer coat diluted with 100% thinner
- 4- Over putty
  - Apply a thick coat diluted with 20% thinner
  - Thickness 500 micron

### PERFORMANCE DATA

- |                                     |          |
|-------------------------------------|----------|
| - Compressive strength( ASTM C-579) | 9900 psi |
| - Tensile strength ( ASTM C-307)    | 1500 psi |
| - Flexural Strength ( ASTM C-580)   | 4600 psi |
| - Tensile Elongation at break %     | 15 %     |

### PRECAUTION

- Do not use in area when humidity superior to 75%
- Use only Pastel thinner epoxy
- Ensure a good ventilation in closed area

### DRYING TIME

- Touch dry: 30 min
- Dry: 4 hours
- Full dry: overnight
- Re-coatable: 24 hours
- For traffic: Three days

Pot life: Of mixture 8 hours. Do not use this mixture after this time

Packing: In tins of 1 US gallon to one quart of hardener

In pails of 4 US gallon of enamel to one gallon of hardener