
EPOXY PRIMER

GENERIC TYPE

Epoxy polyamide. Part A and Part B mixed prior to application.

GENERAL PROPERTIES

Penetrating clear primer-sealer for concrete surface prior to application of a topcoats. Excellent fast-drying material. Priming and sealing action provides excellent adhesion for a topcoats. It can be applied by spray, brush, or roller.

RECOMMEND USES

As a curing compound. For application on "green" concrete walls to retard the escape of moisture during cure period. It is recommended with an appropriate topcoat for protection of structural concrete.

NOT RECOMMENDED FOR

Immersion in strong acid or solvents or in corrosion area without recommended topcoat.

PHYSICAL PROPERTIES

- Typical Chemical Resistance Guide(With suitable topcoat)

Exposure	Immersion	Splash & Spillage
Salt Solutions	Excellent	Excellent
Sugar Solutions	Excellent	Excellent
Water	Excellent	Excellent
Alkalies	Very Good	Excellent
Solvents	N/R	Very Good
Strong Acid	N/R	Very Good

* N/R : Not Recommended

- Temperature Resistance (Non-immersion)

Continuous : 80 °C

Non-continuous : 100 °C

May yellow at temperature above 65 °C

- Weathering : Good (chalks)

- Substrates : Apply over suitably prepared metal, concrete, wood or other surfaces as recommended.

- Colors : Clear only

- Theoretical Solids Content of Mixed Material : 40%

- Recommended Dry Film Thickness Per Coat :

30~50 microns

- Drying Time Before Top coating

Surface Temperature 5 °C 10 °C 15 °C 25 °C 30 °C

Overcoat Time Min.: 24h 1h 6h 2hs 2h

 Max.: 48h 42h 36h 24h 18h

- Theoretical Coverage Per Liter : 10 m²/ liter(50 microns)

- Gloss : High gloss(Epoxies lose gloss, discolor and eventually chalk in sunlight exposure)

PACKING UNIT

- Main Agent (part A): 10.5kg,

Hardener (part B): 3.5kg

STORAGE CONDITIONS

- Store it indoors.

- Temperature: 5~43 °C

- Relative Humidity: 0~90% (sealed condition)

- The remained paint should be sealed after use.

SHELF LIFE

- 24 months (at room temperature)

* This document is exact, but it can be changed for quality improvement without notice. For more detailed information, contact to Technical Center of our company.

MIXING RATIO

- A : B = 3 : 1 (by weight)

EPOXY PRIMER

SCOPE

This application instruction is issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. This instruction should be followed closely to obtain the maximum service the materials.

SURFACE PREPARATION

Remove oil or grease fats and contaminants from surface to be coated with Thinner #001 or #003 in accordance with SSPC-SP 1.

- Concrete

- 1) Concrete must be cured at least 28 days at 70°F(21°C) and 50% RH., or equivalent.
- 2) Curing compound-walls Only: Apply immediately after forms have been stripped.
- 3) Epoxy primer is not a substitute for blasting for immersion service.
- 4) Depends on the condition of the surface, 2coats may be necessary
- 5) Remove fins and oils, incompatible curing agents and hardeners by abrasive blasting. For large hole or pits, use an epoxy putty or epoxy surface for leveling and uniformity prior to application of Epoxy primer.
- 5) Immersion service–Abrasive blast to open all voids and obtain a surface medium grit sand paper. Blow or vacuum off sand and dust.
- 6) Non-Immersion service – Horizontal surface must be grinding or abrasive blasted to remove laitance. For other surfaces, Abrasive blast to open all voids and obtain a surface medium grit sandpaper. Blow or vacuum off sand and dust.

WORKING CONDITION

- Mixing: Power mix in the following proportions.
 - 1) Add one(1)Part B to one(2) Part A (by weight)
 - 2) All mixing should be carried out mechanically i.e. slow speed drill and suitable paddle for pack size
 - 3) Mix for at least 3 minutes.
- Thinning: For spray or brush application, may be up to 25% by volume with Thinner #0910 or Epoxy Thinner.
- Pot life : 16 hours at 25°C and less at higher temperature. Pot life ends when coating becomes too viscous to use.

APPLICATION CONDATION

	Material (°C)	Surfaces (°C)	ambient (°C)	Humidity
Minimum	10	10	4	0
Normal	15~30	15~30	15~30	< 80%
Maximum	32	65	50	95

* Do not apply or cure material when surface temperature is less than 3°C above the dew Point.

* Special thinning and application techniques may be required above or below normal conditions.

APPLICATION EQUIPMENT

This is a high build coating and may require slight adjustments in spray techniques. The following spray equipment has been found suitable is available from manufacturers such as Binks, DeVilbiss and Graco etc.,

1) Airless Spray

- Nozzle orifice 0.43~0.53 mm (0.013~0.015")
- Nozzle pressure 150Kg (2000P.S.I)
- Pump Ratio 30 : 1

2) Brush or Roller

- Use medium bristle brush, or good quality short nap roller.

SURFACE TREATMENT

- Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
- Previously painted surfaces should be scraped clean of flaky or peeling paint.
- Needed the proper preparation and recommended a primer.
- The cure time of concrete.

Temperature (°C)	Drying times (days)
24	More than 28
21	30~
10	40~
7	60~

- Remove any oil or grease from surface to be coated with clean rags soaked in Jeong Seok Thinner #001, #003 or toluol in accordance with SSPC-SP-1.

PRECAUTIONS

- Avoid painting in a rainy or humid day (over 85%) and under less than 5°C as it can make poor paint film (Cracks or bad adhesion in the coating layers).
- MSDS is recommended for more information.
- Do not use it under the direct rays of sun in summer.
- Personnel protective clothing should include goggles, rubber gloves, and full length clothing.
- In case of skin contact, remove contaminated clothing

EPOXY PRIMER

and wash affected area thoroughly with soap and water for a minimum of 15 minutes.

Then contact a physician.

- Please treat it with the paint 28 days after the cement mortar got the final treatment and it is below ph 9 and 8% moisture content.
- Keep adequate ventilation during the application.
- Keep it away from ignition.
- Make sure that the paint should not be kept for a long time after opening and the remaining paint should be sealed after use.
- Do not apply when air or surface temperature is below 10°C or when rain or high humidity is imminent.

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