

Lycal EP 41

Solvent free pigmented epoxy coating



Description

It is a solvent free epoxy resin gel-coating and it is durable, impermeable and with excellent resistance to fresh and salt water and wide range of chemicals which are commonly used in industry. The material cures rapidly both in air and under water, and it also cured under continuous immersion in warm water. The material is a high build coating, and it can be obtained on vertical surface with a film thickness of 250 micron per coat.

Recommended Application

- Apply in tank lining, floor coating in chemical industry
- Waterproofing of concrete retaining wall, water and sewage treatment tank.
- On site rehabilitation of concrete and corroded steel component under water and in tidal zone.

Base

Resin and polyamine hardener

APPEARANCE

Color

Grey ,Red, Yellow, Black.

For other special color request, please contact us.

Finish

Full gloss, hard, and abrasion-resistant



Figure 41(1)

APPLICATION DATA

Flash Point	>150°C
Solid Content	100%
Mixing Ratio, Resin : Hardener	3 : 1 by weight Quartz Sand can be added if necessary. The maximum portion to the resin component is resin component : quartz sand =1 : 4 by weight. Please note that it may effect the waterproofing properties due to insufficient density as mortar.
Viscosity (at 25°C)	Part A: 4000 cps Part B: 100-300 cps Data is varied by different color.
Specific gravity	Part A: 1.5 Part B: 1.0 Data is varied by different color.

Loyal Enterprise Company

Flats D, E, &H, 16/F Block B, Marvel Ind. Bldg., 17-25 Kwai Fung Crescent, Kwai Chung, H.K. Tel: (852)24297261,(852)24297269 Fax: (852)24804473

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Lowest Application Temp	5°C
Pot Life (at 25°C)	30 minutes
Drying Time	Touch dry: 2 hours x 25°C (thickness of layer 0.5mm) Hard dry: 24 hours Full cured : 7 days x 20°C Curing time may be varied by temperature and humidity change. The lower the temperature and the higher the humidity exists, the longer the curing time needs.
Overcoating Time	8 hours. Drying time and overcoating time depend on ambient temperature and humidity. When low temperature and high humidity exist, longer drying times should be allowed.
Recommended Film Thickness	0.25 mm

Coverage Rate

Thickness of layer	kg /M ² (Approx.)	M ² / Lit (Approx.)
0.25 mm	0.3 kg /M ²	3.33 M ² / kg

**The above coverage refers to application on smooth surfaces and allowance should be made for irregular surfaces and wastage

Packaging

Unit Size	Part A	Part B
5 kg/ set	3.75 kg	1.25 kg
20 kg/ set	15 kg	5 kg

Thinner/ Cleaning

MIBK

Not recommended for thinning, because it will cause the solvent entrapping, and it effect the chemical resistance and its hardness. It is for cleaning purpose only.

Storage and handling

Approx. 12 months in their original, unopened packages, and store under cover, out of direct sunlight and protect from temperatures at 5-30°C.

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Application Method

1. The surface to be coated, should be sound, clean and free from grease oil.
2. Mix part A and part B according to the specify mixing ratio with hand mixer for 5-10 minutes at low speed, then apply one coat on the surface by brush, roller or scraper.
3. Apply the mixed material on the applied surface right after the mixing procedure; otherwise, the material will cure faster due to the exothermic reaction will occur.

Note: If apply on galvanize steel or zinc alloy or non-ferrous metal surface, use ETCH220 (etching primer) applied as primer or use other surface treatment. If the above step is skipped, it would produce zinc soap between the abovementioned metal and the coating and it makes the coating peel off easily.

Technical Data

Completely resistant to water, salt water, petroleum, crude oil, kerosene, 3% - 10% sulphuric acid, 10% hydrochloric acid, and 4% - 10% phosphoric acid, 10% acetic acid, and 30% caustic soda ...etc.

Health and Safety

Approved face masks to be wore during application process and provide adequate ventilation. The use of barrier cream is advised for hands and exposed skin. Skin irritation may happen for skin contact with acid.

The technical information and application advice given in this publication is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to the suitability of a product for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by commonwealth or State legislation the owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

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