

Description

EP015 is a two-component solvent free polyurethane modified epoxy flooring system. It possesses the advantage of both epoxy and polyurethane. Good resistance to moisture and chemicals. Also, it is good adhesion with concrete, cement render, fiberglass, metals, etc. In addition, because it is a VOC free flooring system, it is an environmental friendly flooring system.

Recommended Application

EP015 is a seamless flooring, and it is suitable for food plant, precise machine plant, hospital, garment factory, pharmaceutical plant, car park, pavement, saloon, shops, industrial building flooring, godown.

Base

Resin and polyamine hardener

APPEARANCE

Color

Restricted color range BS-4800.

For other special color request, please contact our technical dept.

Finish Gloss

APPLICATION DATA

Flash Point	>100°C
Solid Content	100%
Mixing Ratio, Resin : Hardener	Primer (EP315) : 3 : 1 (by volume) Body coat : 3 : 1 (by weight) Top coat : 4 : 1 (by weight) The recommended mixing ratio should be followed strictly. Improper mixing ratio may result in failure of the performance of the products.
Viscosity (at 25°C)	Top coat: Part A: 14000 - 15000 mPa.s (27 °C) Part B: 100 - 200 mPa.s
Specific gravity	Top coat: Part A: 1.4 - 1.5 Part B: 1.05 Data is varied by different color.
Lowest Application Temp	5°C
Pot Life (at 25°C)	Primer (EP315) : 45 minutes Body coat : 20 minutes Top coat : 20 minutes
Curing Time	Touch dry : approx. 45 mins x 25°C Hard dry : approx. 24 hours x 25°C Full cured : 7 days

Loyal Enterprise Company

Flats D, E, &H, 16/F Block B, Marvel Ind. Bldg., 17-25 Kwai Fung Crescent, Kwai Chung,

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	Curing time may be varied by temperature change. The lower the temperature exists, the longer the curing time needs.
Recommended Film Thickness	Heavy Duty: > 2mm, included 3 layer Normal Traffic: > 0.54mm, included (Primer: 0.04mm + Top coat: 0.5 mm)

Coverage Rate

Coat layer	Thickness of layer	M ² (Approx.)	M ² (Approx.)
Primer coat	0.04mm	0.1-0.2 Lit / M ²	6-9 M ² / Lit
Body coat (with sand 1:1)	2 mm	4 kg / M ² (2 kg Resin + 2 kg sand)	0.25 M ² / kg (0.5 kg Resin + 0.5 kg sand)
Top coat	0.5 mm	0.6 kg / M ²	1.6 M ² / kg

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

Packaging

Coating layer	Unit size	Part A	Part B
EP 315	4 Liter/ set	3 Liter	1 Liter
EP 315	20 Liter/ set	15 Liter	5 Liter
EP 015 Body coat	5 kg / set	3.75 kg	1.25 kg
EP 015 Body coat	20 kg / set	15 kg	5 kg
EP 015 Top coat	5 kg / set	4 kg	1 kg
EP 015 Top coat	20 kg/ set	16 kg	4 kg

Thinner/ Cleaning

TH-500

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 of the substrate should be sound, clean, dry and free from grease or oil.
2. For priming, mix the primer of 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. If necessary, use Mortar 8 for patching before applying primer.
3. After the primer dry (approx. 8 hours at 25°C), mix body coat of part A and part B according to the specify mixing ratio with hand mixer for 5-10 minutes at low speed, then add the quartz sand to the well mixed A and B, continuously mixed with hand mixer until all homogeneous, apply this mixed slurry to the primed surface by scraper. Spiked roller should be used at finishing step for removing the entrapped air bubbles.
4. Finally, mix the top coat of part A and part B according to the specified mixing ratio with hand mixer, than apply it with roller or scraper.

- Hints:
1. Mixed the material in the same direction to avoid entrap the air bubbles.
 2. Pour 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.
 3. In order to have better surface, re-trowelling after 15 minutes is not recommended due to the color of the surface layer may varied from the original.
 4. Please note that the pot life for primer, body coat, and top coat is 45 minutes, 20 minutes and 20 minutes respectively. Therefore, mixed part A and part B should be apply within the pot life time.

For Normal Traffic:

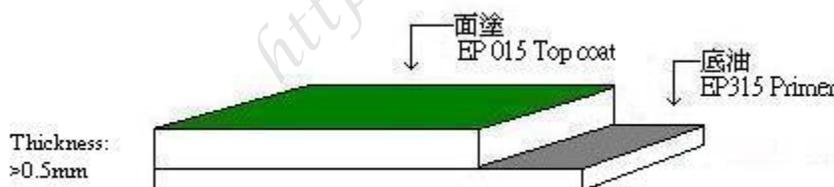


Figure. 015(1)

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EP 015

Polyurethane Modify Epoxy Flooring System



For Heavy Traffic:

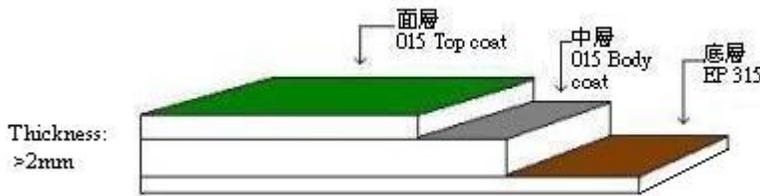


Figure 015(2)

Technical Data

	7 days
Tensile Strength (BS 6319:Part 7:1985)	20.8 N/mm ²
Compressive Strength (BS 6319: Part 2: 1983)	62 N/ mm ²
Hardness (ASTM D2240: Shore D)	84
Bond Strength (BS EN 24624)	> 5.0 N/ mm ²

Health and Safety

The product above contains polyamine hardener and is harmful to eyes and skin. Use protective clothing and rubber gloves.

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.

Version: LOY1007/101215

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