

UNIPOXY RESIN MORTAR



OVERVIEW

EPOXY RESIN MORTAR UNIPOXY RESIN MORTAR is a three component floor coating based epoxy/ amine resin and silica sand with an excellent resistance to abrasion and impact. It forms tough and hard film with very good resistance to acids, alkalies and organic solvents.

• Recommended Use

A floor coating for the place where non-slip effect ,impact and abrasion resistance is required such as parking lot, hospital and other similar places.

PHYSICAL PROPERTIES

1. Finish and Color

Clear. Green, Reddish brown. Other colors are available on request.

* For clear : Mixed with color sand

* For color : Mixed with general sand

2. Drying Time

Substrate temperature	5°C/ 41°F	10°C/50°F	20°C/ 68°F	30°C/ 86°F
Set to touch	2days	40hours (36hours)	12hours (12hours)	6hours (5hours)
Dry through	5days	60hours (48hours)	24hours (20hours)	12hours (10hours)
Fully cured	14days	10days	7days	5days

*bracket - for winter season

3. Solids by Volume

Approx. 100%

4. Theoretical Coverage

0.94-1.24Kg/m² in 3mm dry film thickness on a smooth surface.

1.57-2.06Kg/m² in 5mm dry film thickness on a smooth surface.

5. Specific Gravity

Mixed Approx. 1.10(kg/L)

6. Flash Point

BASE(summer) : 101°C/214°F(Closed cup), CURING AGENT(summer) : 93°C/200°F (Closed cup).

BASE(winter) : 101°C/214°F(Closed cup), CURING AGENT(winter) : 62°C/144°F (Closed cup).

APPLICATION DETAILS

1. Surface Preparation

Remove any oil, grease and other contaminants from the surface to be coated.
Concrete should be thoroughly cured for at least 28 days at 20°C/68°F and below 80% R.H.

2. Preceding Coat

KOREPOX PRIMER/SEALER UNIPOXY PRIMER or according to specification.

3. Application Conditions

Do not apply when the temperature is less than 10°C/50°F, and relative humidity is above 80%.
The surface temperature should be at least 3°C(37°F) above dew point to prevent condensation.

4. Mixing(by weight)

- * For UNIPOXY RESIN MORTAR-clear : Mixed with color sand
Base(PTA) : Curing Agent(PTB) : color sand (by weight)
 - for summer = 12.5kg : 3.4kg : 95kg(For parking lot or walk-way)
 - for winter = 12.5kg : 3.92kg : 64kg (For heavy equipments or heavy duty)
- * For UNIPOXY RESIN MORTAR-color : Mixed with general sand
Base(PTA) : Curing Agent(PTB) : general sand (by weight)
 - for summer = 13.3kg : 3.4kg : 95kg(For parking lot or walk-way)
 - for winter = 13.3kg : 3.92kg : 64kg (For heavy equipments or heavy duty)

Mix separately Base and Curing Agent with electric-mixer and pour the mixture to silica sand (or color sand) and stir material to uniform consistency.

5. Pot Life & Recoating Time

Substrate temperature	10°C/50°F	20°C/ 68°F	30°C/ 86°F
Pot life	130minutes (60minutes)	40minutes (25minutes)	20minutes (15minutes)
Recoating time(min)	4days	2days	1day
Recoating time(max)	28days	21days	14days

6. Thinning

Do not dilute.

7. Method of Application

Trowel, Spatula

8. Recommended Dry Film Thickness

3 - 5mm at a time

9. Subsequent Coating

TOPCOAT UNIPOXY COATING or according to specification.

10. Shelf Life

12 months

11. Packing

	BASE	CURING AGENT
Summer(clear)	12.5kg	3.4kg
Summer(color)	13.3kg	3.4kg
Winter(clear)	12.5kg	3.92kg
Winter(color)	13.3kg	3.92kg

* Summer : April ~ September, Winter : October ~ March

* Porous surfaces should be primed many times with suitable primer to avoid penetration of UNIPOXY REINS MORTAR RESIN.

12. Required resin quantities and mixing ratio for application area condition

If thinner is used ,Drying is delayed and crack can be occurred.

Application area	Resin quantities		Mixing ratio (by weight)
	3mm D.F.T	5mm D.F.T	
General condition (For parking lot or walk-way)	0.94kg/m ²	1.57kg/m ²	Resin/Sand = 1/6
Severe condition (For heavy equipments or heavy duty)	1.24kg/m ²	2.06kg/m ²	Resin/Sand = 1/4

Remarks

1. Because the paint compounds can cause a health failure such as a headache, dizziness, a skin inflammation, do not inhale vapors, spray mist and fumes and do not take in the contents.
2. During application, wear the protective mask, protective glasses, gloves and suitable protective equipment to avoid breathing vapors or spray mist
3. Please avoid contact with eyes and skin during application, in case of contact with skin and eyes or eating paint, get the first aids according to warning notation on the can label and then get the medical assistance by doctor immediately.
4. Do not apply the paint in restricted areas. If you are obliged to apply in restricted areas, use the ventilation machine to blow out, all workers should wear a protective mask.
5. Do not allow to use the paint as fuel.
6. If you have any questions about products or you want to know safety information, you can get the technical datasheets and MSDS on our Internet Homepage(www.kccworld.co.kr) Or ask the customer's service.

8. Do not apply the paint in restricted areas. If you are obliged to apply in restricted areas, use the ventilation machine to blow out, all workers should wear a protective mask.

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Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.



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