



This Specification is applied ANTIDUST, ANTISTATIC epoxy floor coating declared on the drawing. As this product is a two-component, polyamide cured epoxy resin based paint with excellent resistance to water, chemical, abrasion and impact and antistatic effect, it is applied with KCC or another product above equality after submitting samples and gaining the approval of the inspector.

Recommended use	<ol style="list-style-type: none"> 1. Floor of clean room, pharmaceutical factory and surgical operation room. 2. Place handling flammable gas, chemicals, organic solvent. 3. Floor of electric, computer and semi conductor industries. 4. Place requested anti-dust and anti-static effect.
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Physical Properties	
Finish and Color	Semi gloss. Gray, Green Other colors are available on request.
Specific gravity	1.1 ~ 1.3(Kg/L) according to color.
Solids by volume	Approx. 48%
Spreading rate (Theoretical)	9.6 m ² /L (DFT 50μm)
Flash point	4°C (Close Cup)

Application details	
Surface preparation	<ol style="list-style-type: none"> (1) Concrete must be cured at least 30 days at 20°C/68°F and below 85% R.H. (2) Remove any oil and grease from surface to be coated. Surface must be grinded or abrasive blasted to remove laitance and other impurities.(BLASTING, CHIPPING, DIAMOND WHEEL GRINDING or 10% HCL cleaning) (3) Optimum pH value is 7~9 (Moisture content of the concrete surface must be below 6%) (4) Fill up a gap or groove with a UNIPOXY PUTTY, The portion where the crack is serious need to be repaired with a epoxy resin mortar and in the case of new construction joint after coating need to be cut and sealed with a PU9330(N). (5) If wall is close to floor, do v-cutting the edge of the region. (6) Pay attention to secure substrate smoothness because substrate smoothness is an important element of anti-static performance.

Method of application	Items	Product Name	Film Thickness	Method of Application	Color	Remarks
	Primer	UNIPOXY Primer	50μ	B.R.S	Clear	Primer for reinforcing the substrate intensity and improving adhesion
	Middlecoat	UNIPOXY LINNING	500μ	RAKE, Hera	Gloss All Color	Self leveling flooring paint with excellent chemical resistance, mechanical property, abrasion resistance, impact
	UNIPOXY LINNING	1,500μ				

					resistance
Topcoat	UNIPOXY ANTISTATIC	50μ	S*	SemiGloss luminosity6~8 saturati on below 6	A finishing coat withanti-static effect,adhesion, abrasionresistance, water andchemical resistanceetc.* Electricalresistance : $5 \times 10^{6-8}\Omega$ * Can be used forCLEANROOM CLASS#100
	UNIPOXY ANTISTATIC	50μ			

* the short word of coating method : B => Brush, R => Roller, S => Spray

(1) Primer

- Mix thoroughly prior to application in the proportions with power agitator after surface preparation finishes, and then coat one time 50 microns DFT to be absorbed into the substrate by Roller or Brush
- Coat after diluting with UNIPOXY THINNER to the maximum 5%(by volume) of the paint amount to be absorbed into the substrate
- As coat one time, if the absorption of the coated substrate is occurred severely (the part that is restored to the color of the initial substrate), it must coat primer additively

(2) Middle Coat

- After curing primer for minimum 24 hours at 20°C, mix UNIPOXY LINNING base (PTA) and curing agent (PTB) thoroughly by PTA/PTB = 12L/4L and scrape this mixed paint, 0.5 mm of thickness with rake or trowel
- After curing UNIPOXY LINNING of 0.5mm thickness for minimum 16 hours at 20°C, mix base (PTA) and curing agent (PTB) thoroughly by PTA/PTB = 12L/4L and coat this mixed paint, 1.5 mm of thickness with rake or trowel
- This time, we can remove the surface bubble with spraying UNIPOXY THINNER

* Remarks -application of UNIPOXY LINNING at winter condition*

- When working at winter, close the outside wind or you will have coating defect
- The minimum work temperature must be above 5°C (substrate temperature)
- If you work below 5°C of substrate, you will have leveling defectiveness, alligating, amine blushing and wrinkle
- UNIPOXY LINNING is low viscosity type paint at winter ,therefore you don't have to use thinner
- If you use thinner at winter, you will have alligating, amine blushing and wrinkle
- Before using UNIPOXY LINNING, you keep UNIPOXY LINNING for minimum 24 hours in the condition where keep warm the above 5°C (If you keep UNIPOXY LINNING below 5°C, the viscosity of UNIPOXY LINNING is high and you will work difficultly)

(3) Topcoat

- After curing middle coat for minimum 16 hours, it mixes a base and a curing agent with bulk ratio 3:1 and apply 2 times with 50 microns dry film thickness.
- Coat the paint with the air spray certainly in order to get good appearance and the electrical resistance which is provided.
- At this time recoating interval is minimum 24 hours at 20°C/68°F. If necessary, thin a paint with UNIPOXY THINNER to the maximum 10% by volume.

Mixing	Base(PTA): Curing Agent(PTB) = 12 : 4 (by volume) Mix thoroughly together prior to application in the proportion as delivered. Mix only the amount which can be used within pot life.			
Thinning	UNIPOXY THINNER 10~30%(By Volume)			
Application conditions	Do not apply when the temperature is less than 5°C and relative humidity is above 85%. The surface temperature should be at least 3°C(5°F) above dew point to prevent condensation.			
Film thickness	50 microns at a time			
Drying time		10°C	20°C	30°C
	Set to touch	3 hours	2 hours	1 hours
	Dry through	36 hours	12 hours	8 hours
	Fully cured	7 Days	4 Days	3 Days
Pot life		10°C	20°C	30°C
	Pot Life	5 hours	3 hours	2 hours
	R/I (Min.)	36 hours	24 hours	16 hours
	R/I (Max.)	9 days	7 days	5 days
Recoating interval	2coats are recommended			

Storage and package	
Shelf life	6 Month
Storage	Store in cool, dry, well-ventilated place.
Packing Unit	16ℓ [Base(PTA): Curing Agent(PTB) = 12ℓ : 4ℓ]

Remarks	
Handling Precautions	<p>(1) Optimum temperatures in application and curing is above 5°C. Surface temperatures must be at least 3°C(37.4°F) above dew point to prevent condensation.</p> <p>(2) Mix thoroughly together for 4~5minutes with high speed hand mixer (RPM 1,000 ~1,500) before application according to mixing ratio indicated.</p> <p>(3) Do not use the thinner at Middle coat UNIPOXY LINNING. If the coating is thinned with the thinner, the coating is occurred the physical properties decrease and curing defectiveness</p> <p>(4) Do not apply UNIPOXY LINNING below 5°C of substrate temperature</p> <p>(5) Middle coat UNIPOXY LINNING can be occurred amine blushing at condition of below 10°C, at this time, do not pollute water, ice, snow, rain and dew. If coating occurred amine blushing is polluted with water, coating color is changed with whiteness</p> <p>(6) If Middle coat UNIPOXY LINNING is used at above of 30°C, curing speed will comes to be quick and pot life is short. So UNIPOXY LINNING is kept at condition of cool interior instead of hot outside at summer season</p> <p>(7) UNIPOXY LINNING must be coated with two times (1st : scrapping 0.5mm coating, 2 nd: main 1.5mm coating) to prevent bubble occurrence due to concrete void</p> <p>(8) The prior consultation is necessary in special cases because UNIPOXY ANTISTATIC is a little limited to color (luminosity: 6~8, saturation: below 6).</p>

- (9) Shelf life of UNIPOXY ANTISTATIC is 6 Month but according to color the precipitation occurs in the receptacle. If the precipitation occurs, it is recommended to apply after mixing the paint with the high-speed agitator.
- (10) In confined spaces, circulate fresh air during application to assist solvent evaporation and Respiratory protection is recommended.
- (11) Keep in mind the top coat UNIPOXY ANTISTATIC could occur the change of color and chalking at outdoor exposure for the property of epoxy resin.
- (12) UNIPOXY ANTISTATIC must be applied with the air spray certainly in order to get good appearance and the electrical resistance which is provided.
- (13) The pot life being over, left-over after using cannot be used and must be discarded. – UNIPOXY PRIMER : 8 hours, UNIPOXY LINNING : 30 minutes, UNIPOXY ANTISTATIC : 5hours (20°C)

Note	<p>a. 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.</p> <p>b. During application, wear the protective mask, protective glasses, gloves and suitable protective equipment to avoid breathing vapors or spray mist</p> <p>c. 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</p> <p>d. 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</p> <p>e. Do not allow to use the paint as fuel.</p> <p>f. 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.</p>
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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.

