



Waterborne Epoxy Topcoat SUNIPOXY COATING is a water soluble two-components high glossy epoxy paint. It forms a hard and tough film with an excellent adhesion and resistance to water, alkalies, abrasion and impact and is an eco-friendly product that is easy to work even in a confined space.

Recommended use	A finishing coat for use on concrete or others in areas where high anti dust property is required such as pharmaceutical, precision equipment and electronic factory and hospital, etc. * In the case of deposits where water is constantly in contact, it may cause appearance defects such as whitening, swelling, poor adhesion etc.
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Physical Properties

Finish and Color	Gloss. Green, Other colors are available on request.
Specific gravity	Approx. 1.3 ~ 1.6 (kg/ℓ)
Solids by volume	Approx. 45%
Spreading rate (Theoretical)	11.25㎡/L in 40 microns dry film thickness on a smooth surface.
Flash point	non-flammable substance

Application details

Surface preparation	Do not apply coating unless concrete has cured at least 28 days at 20℃/68°F and below 80% R.H Moisture content of the concrete surface should be below 6%. Remove any oil and grease from surface to be coated.
Preceding coat	SUNIPOXY PRIMER BASE or according to specification
Method of application	Brush, Roller
Mixing	Base(A): Curing Agent(B) = 8.6 : 7.4 (by volume) Mix uniformly for about 3 to 4 minutes using an electric stirrer at the ratio indicated before use. Mix only the amount which can be used within pot life.
Thinning	Water (Thinning ratio : Max.5% by volume) * It must be used within 5% by volume. Please note that excessive dilution may cause color acceptance, gloss deterioration, curing delay and coating defects. * The two ingredients must not be diluted separately and the mixture must be diluted.
Application conditions	Do not use if the ambient temperature is below 10 °C or the relative humidity is above 85%. The surface temperature of substrate must be 3 °C above the dew point. * Caution : If the coating conditions are out of the recommended conditions, coating defects such as cracking and peeling, gloss reduction, amine brushing, and tacky due to curing delay may occur.
Film thickness	It is recommended to paint 2 ~ 3 times with 1 layer of dry coating thickness of 40μm. *Precautions

- 1) Recommended coating thickness is based on 2 coats of 40 microns, but the appearance may differ depending on the condition of the surface, pretreatment and undercoating, and moisture absorption. Apply an additional coat of 1 coat (40 microns of dry coat).
- 2) In order to get a good appearance in one coat, adhere to dry film thickness of 40 microns (WET 120 microns, 5% dilution).
- 3) When coating with thick film at once, it may cause hardening defects due to water evaporation delay, crack and peeling of coating film, amine brushing, gloss reduction, etc.
- 4) When paint is poured on the substrate for the purpose of forming thick film (wet film thickness of 150 microns or more) at the time of painting, when working with a roller or other coating equipment, it may cause hardening, surface wrinkles, and color acceptance because of the overcoat. Please prohibit it.
- 5) When painting in an enclosed space, it is advisable to provide a proper ventilation system for drying. (As it is a water-soluble type, the drying speed may be very delayed in a closed space without a ventilation system.)
- 6) Different coating thicknesses may be recommended depending on the area of use and purpose. As the film thickness changes, the drying time, recoating interval, and coating rate also change.

Drying time		10℃	20℃	30℃
	Set to touch	4 hours	2 hours	1 hour
	Dry-through	50 hours	12 hours	6 hours
	Full hardness	10 days	6 days	4 days
Pot life		10℃	20℃	30℃
	Pot life	3 hours	1 hour	0.5 hour
	Follow up coating	MIN. 60 hours	15 hours	10 hours

* Must be used within pot life because of fast pot life. (Especially pay attention to summer work)

Storage and package	
Shelf life	12 months
Storage	Well-ventilated dry cool place, temperature 10 ~ 35 ℃, humidity below 80%
Packing Unit	1) 16 L (PTA : PTB = 8.6 L : 7.4L) 2) 4 L (PTA :PTB = 2.15 L : 1.85L)

Remarks	
Handling Precautions	<ol style="list-style-type: none"> 1) The recommended coating thickness is based on two 40 micron coatings, but the appearance may differ depending on the condition of the surface, pretreatment and undercoating, and moisture absorption. If necessary, apply an additional coat of 40 microns (dry coat). 2) Please apply over 3 times to cover your possession in case of high saturation. 3) In case of repainting, hiding power may be poor even though it is applied 2-3 times because of the color difference of the old film. If not completely concealed, please apply additional coating until a satisfactory level of concealment is achieved. 4) To get a good appearance in one coating, adhere to a dry film thickness of 40 microns (WET 120μm, 5% dilution) 5) In case of working with roller and other coating equipment after pouring mixed paint into the material for the purpose of forming thick film (wet film 150μm or more) at one time of coating, poor curing, surface

wrinkles, color acceptance, low gloss, and anti-foaming may occur because of the thick film.

6) when it is out of recommended coating conditions or after thick coating, curing delay and defects occur during winter season (below 10 °C). In this state, marks or walking marks (shoe scratches, etc.) on the vehicle mark may leave. Be sure to follow the recommended coating conditions and pass after the coating has completely cured.

7) Do not use if the ambient temperature is below 10 °C or the relative humidity is above 85%. The surface temperature of substrate should be 3 °C above the dew point. If the coating conditions are out of the recommended conditions, coating defects such as cracking and peeling of the coating film, gloss reduction, amine brushing, and tacky may occur.

8) When painting over the old film, apply the test coating in advance and paint if there is no abnormality (adhesive strength, etc.).

9) If the pot life is not observed, discoloration and gloss deterioration occur.

10) When exposed to water (humidity), alcohol, etc., the film may be damaged, such as gloss reduction or discoloration. At the low temperature and high humidity conditions, amine brushing, whitening, and curing delay may occur.

Note	<p>1) Good adhesion with existing oil-based epoxy flooring allows mixing systems.</p> <p>2) Be careful not to freeze during storage or transportation. Do not mix this product with other paints.</p> <p>3) Keep container tightly closed and the inlet facing up. After use, please save the remaining amount in the same way.</p> <p>4) Do not throw away the remaining paint after use, such as in sewage, river water, and soil.</p> <p>5) Keep out of reach of children. Be careful of disposal and storage as animals and plants are harmful when ingested.</p> <p>6) Please note that discoloration and chalking may occur due to the nature of EPOXY paints in sites with a lot of UV radiation due to outdoor exposure or indoor lighting.</p> <p>7) Since this product is a chemical product, it may be deteriorated when stored for a long time, so use it within the expiration date (12 months from the date of manufacture).</p> <p>8) Please check the product after the expiration date with our customer service center.</p> <p>9) For product inquiries or hazard data, please refer to the technical data and material safety data sheet (MSDS) posted on our website (www.kccworld.co.kr) or contact our customer 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.

