



Technical Data Sheet

(SEC-100R (Resin))

(SEC-100H (Hardner))

STARKEMER CO., LTD.



SEC-100R / SEC-100H

Overview of Product

SEC100R/H is composed of epoxy resin and cycloaliphatic modified amine hardner with a 2-liquid epoxy coating and primer products. It doesn't smell and has rapid hardening, so usability is far superior in low viscosity type. Transparency and gloss is of quite a high quality after coating formation. And the product has high abrasion resistance, fouling resistance with superior properties.

General Characteristics

- Usability is far superior in low viscosity type.
- It doesn't smell and has long pot times and rapid hardening.
- The product has high abrasion resistance, fouling resistance with superior properties.
- Adhesive property is superior and the product can also be used as a primer on the concrete surface.

Usage

Coating of flooring for interior design.

Mix Proportion And Surface Finishing

- Mixing Ratio (wt%)
Resin : Hardner = 10 : 4
- Surface Finishing
Gloss : Glossy
Color : Transparent color
- Suggested Coating Thickness
The norm of painting for once, 50 ~ 100 μ m (Refer to 'Specifications of Painting' on page2.)

Physical Properties

- Liquid Properties

Test details		Unit	Measured value		Test condition			
color	Resin	-	Clear		-			
	Hardner		Clear					
Mixing viscosity		cps	20~40		25℃			
Mixing specific gravity		-	1.0~1.1		25℃			
Pot life time		min	30		100g×25℃			
solidified powder		%	30~35		Theoretical value			
Curing time		Temperature	10℃		20℃		30℃	
		Set to touch	8Hours		6Hours		4Hours	
		Dry hard	24Hours		18Hours		12Hours	
		Full cure	2Days		1Day		1Day	

※ The test result that is laboratory environmental standards may differ due to environment (flat surface, wind, humidity etc.) for scene implementation.

• Dry properties

Test details		Test result	Test condition
Chemical resistance	5% NaOH×20°C×168h	good	KS M 6030
	5% H ₂ SO ₄ ×40°C×24h	good	
	3% NaCl×20°C×24h	good	
Water resistance	Distilled water × Ordinary temperature × 168h	good	KS M 2812

Specifications of Painting

• System of Painting

One-time painting criteria 50~100μm		SEC-100 R/H (Transparent coating)
50μm		SAC-1100M(Primer)
		Cement Floor
50μm		SAC-1100M(Primer)
		Surface

• Method of Painting

A. The working hand tools of recommendation

Film thickness(One time painting)	Working hand tool
50μm ~ 100μm	Oil Roller

B. Theoretical spread rate :

Dry film thickness for one time based on 75μm, 0.2kg/m².

※ The product may change depending on concrete or surface condition because difference of absorption rate for theoretical spread rate. Also, it should be repainting when necessary, if absorption rate of surface is big, decline of luster can appear partially.

Directions For The Use

- The temperature is appropriate to more than 10°C for painting and curing. Avoid using it if relative humidity is more than 80% and surface temperature must be 3°C more than dew point.
- Use paint after force the paint temperature to be over 5°C in the winter season.
When the surface temperature has low temperature of less than 10°C, it will result in quality defect by the delay of curing velocity and appearance problems and others.
- The decline of luster can appear, thus, additives separate by low viscosity. So, before use, the product should be well shaken.
- The intermediate coat should work painting after storing in a cool place until ready for use during the hot summer season. If the paint has higher temperature at work after storing warehouses to be exposed to direct sunlight, it needs to be extra careful to get short of pot time.
- Mixing Base and Hardener 2~3 minutes by High speed Stirring machine.
- Make sure that there is adequate ventilation in the indoors during using paint and remember to wear respiratory protective equipment in an enclosed space. For the heated product, use exhaust ventilation to remove vapor.
- For more informations, Please refer to the notice in the product label and the Material Safety Data Sheet(MSDS) of each products.

Method of Product Storage

- This paint must be kept hermetically sealed airtightly and keep this paint out of the direct rays of the sun and avoid humidity. (Storage temperature: 5~30°C)
- Store paint in a cool dry place.
- Once opened, use an entire quantity because the hardener acquiring the property of moisture absorption is respond to moisture in the air.

Product Mark Demonstration

- Product code demonstration

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↓	↓	↓	↓
Manufactured year	Manufactured month	Manufactured date	Serial number

- Product label marking
 - Name of product, weight of Lot No., directions for the treatment, etc.
- Packing unit
 - Resin : 10kg
 - Hardner : 4kg
 - ※ The packing unit can be changed as customer requests.
- Preservation Period
 - 6months from date of manufacture.