

EC121 EPOXY COATING (TRANSPARENT)

1 – PRODUCT DESCRIPTION

Silifix EC121, is a two component, solvent free, self leveling, epoxy coating designed for high build decorative coatings and decorative quartz/flake applications. Silifix EC121 is ideal as a clear top coat over decorative quartz or vinyl flake floor broad cast systems.

2 – FEATURES & BENEFITS

- Solvent free, 100% solid
- Attractive, high gloss, reflective coating
- High impact resistance
- Durable, impermeable and seamless
- Excellent mechanical properties

3– APPLICATION AREAS

Typical applications may include:

- Offices and laboratories
- Museums and galleries
- Auto dealerships
- 3D decorative applications

4 – SURFACE PREPARATION & APPLICATION PROCEDURE

Surface Preparation: Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be removed to achieve a level surface prior to the application.

Mixing: Pour Component B (hardener) into the Component A (resin) pail and mix using a low speed (300rpm) electric drill until mixture is completely homogenous. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Application Method: Silifix EC121 applied with a 10 - 20 mils (0.25 - 0.50 mm) notched squeegee over a smooth surface and a flat squeegee over a rough or decorative quartz surface. . Back roll the product only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks.

Important: Application on wet and frozen surfaces should not be done. Substrate moisture content and also adherence should be checked before application. Epoxy based products have limited working time. Pot life and curing time will be shorter at high temperatures and also will be longer at low temperatures. Especially in hot environments, mixture should be applied immediately and should not be left in the mixture box. The mixture that started to gel should not be applied to the surface. Mixture other than the specified mixture ratio should not be done.

5- PACKAGING

Component A: 10 Kg (Epoxy Resin) Component B: 5 Kg (Hardener)

6- SHELF LIFE & STORAGE CONDITIONS

Silifix EC121 can be kept for minimum 12 months in the original unopened pails at a temperature of 5 °C - 25 °C in dry places.

7- TECHNICAL FEATURES

	METHOD	DATAS
Mix Ratio	-	2:1
Viscosity (Mixture)	ASTM D2196-99	700 cps
Density (Component A)	EN ISO 2811-1	1,1 g/cm ³ (25°C)
Density (Component B)	EN ISO 2811-1	1,02 g//cm ³ (25°C)
Density (Mixture)	EN ISO 2811-1	1,08 g/cm ³ (25°C)
Pot Life	INTERNAL	45 min. (23 °C 50% R.H.)
Tack Free Time	INTERNAL	4 hours (23 °C 50% R.H.)
Light Traffic Time	INTERNAL	24 hours (23 °C 50% R.H.)
Full Cure Time	INTERNAL	7 days (23 °C 50% R.H.)
Shore D Hardness	ASTM D2240	80 (After 7 days)
Shrinkage	INTERNAL	0 %
Adhesion strength	ASTM D4541	>3N/mm ² (Concrete)
UV Resistance	ASTM G23	Color stable, no crack or blister (1000 hr)
Application Temperature	-	10 °C- 35 °C

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