

IriKlerTM

General Description

IriKlerTM is a two-pack polyamide cured epoxy clear coat. It can be used as a protective or decorative clear coat on epoxy-based systems, wooden surfaces, and cement or concrete structures as a sealer. This clear coat increases adhesion and barrier properties of cement and concrete surfaces to recoat by subsequent coatings.

Product Technical Information

- Solids by volume 55 ±1 %
- Density 1.01 ±0.05 Kg /Lit
- Flashpoint >25°C
- Colors/Finish Transparent / Gloss
- Mixing ratio Base to Hardener 78 to 22 (by volume)
- Suitable Thinner/Cleaner IriThin33
- Induction Time 15 minutes

Note: Always add thinner after mixing the components.

- Pot Life

@ 10°C	@ 23°C	@ 30°C	@ 40°C
12 hours	8 hours	6 hours	3 hours

Drying & Recoating Times

Temperature	To touch	To handle	To recoat		Full cure
			Minimum	Maximum	
@ 10°C	6 hours	24 hours	24 hours	7 days	10 days
@ 23°C	3 hours	16 hours	18 hours	5 days	7 days
@ 30°C	2 hours	12 hours	14 hours	4 days	5 days
@ 40°C	1 hour	10 hours	10 hours	3 days	4 days

Note: Drying times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures, not simply air temperatures, higher surface temperatures shorten the maximum recoat window.

The surface should be dry and free from contaminants prior to overcoating. The best inter-coat adhesion is achieved when the subsequent coat is applied before the preceding coat is fully cured. After prolonged exposure times it may be necessary to roughen the surface to ensure inter-coat adhesion. When in doubt, consult your nearest **Darya Tamin** office.

Application

- **Suitable methods**

Air Spray	Airless Spray	Brush/Roller
<ul style="list-style-type: none"> • Nozzle pressure: 4-5 bar • Nozzle size: 1.8-2.2 mm • The volume of thinner: 0-10% 	<ul style="list-style-type: none"> • Nozzle pressure: 110-120 bar • Nozzle size: 0.38-0.50 mm • Spray angle: 40-80 degrees • The volume of thinner: 0-5% 	<ul style="list-style-type: none"> • Suitable for touch-up. • The volume of thinner: 0-10%

- **Recommended thickness**

	Dry film thickness(μm)	Wet film thickness(μm)	Theoretical spreading rate (m ² /l)
Acceptable range	25-50	45-90	3.3-6.7

Surface Preparation

Surfaces should be free of oil, grease, salt or other contaminants. Remove all wax, silicone, powdery or scaling rust and then clean the surface by fresh water washing.

Concrete structures: Remove loose particles. Oil and grease should be removed by solvent cleaning according to SSPC-SP1 . New concrete floors should be at least 30 days old (at 20°C) with maximum moisture content below 12% prior to coating. IriEtch™ can be used for etching the surface. Abrasive blast cleaning may be done if necessary.

Coated areas: Oil and grease should be removed by solvent cleaning according to SSPC-SP1 and followed with fresh water washing. Corroded or damaged areas should be repaired first with an appropriate primer system.

Application Condition

The temperature of the substrate should be at least 3°C above the dew point of the air. Temperature and relative humidity should be measured in the vicinity of the substrate. The maximum recommended surface temperature is approx. 40°C and relative humidity during application and curing should not exceed 80% . When applying the paint in confined spaces, provide adequate ventilation during application and drying. The temperature of the mixed paint should be at least 10°C.

Storage, Handling & Shelf Life

Generally, keep the paint containers in dry and cool (5-35 °C) place and away from heat or open flame. Paint containers must be kept tightly closed in the well-ventilated area and handled with care. This product's shelf life @ 23 °C is 18 months.

Environmental, Health & Safety Note

Read the material safety data sheet (MSDS) of the product before use and pay attention to safety signs attached to the product can. This product is flammable so keep away from heat and open flame.

Avoid skin and eyes by wearing overall, glove, goggles, and a suitable mask. Spillage on the skin should immediately be removed with a suitable cleanser, soap, and water. Eyes should be well flushed with water, and medical attention sought immediately. Don't discard the product on planets, sea, river and drinking water sources.

Keep out of reach of children.

Disclaimer

The information in this document is given to the best of IRIS's knowledge based on professional tests by our experts. However other factors that are affecting the use and application of this product are out of IRIS's responsibility.

For more information contact with Darya Tamin.