

IriPure™

General Description

IriPure™ is a two-pack aliphatic, acrylic based polyurethane clear coat. It can be used as a protective or decorative clear coat over concrete, wooden, masonry, steel, and polymeric substrates. This clear coat offers superior gloss and durability.

Product Technical Information

- Solids by volume 42 ±1 %
- Density 1.00 ±0.05 Kg /Lit
- Flashpoint >25°C
- Colors/Finish Transparent/ Gloss
- Mixing ratio Base to Hardener 72 to 28 (by volume)
- Suitable Thinner/Cleaner IriThin44

Note: Always add thinner after mixing the components.

- Pot Life

@ 10°C	@ 23°C	@ 30°C	@ 40°C
10 hours	6 hours	4 hours	2 hours

Drying & Recoating Times

Temperature	To touch	To handle	To recoat		Full cure
			Minimum	Maximum	
@ 10°C	4 hours	24 hours	26 hours	5 days	10 days
@ 23°C	2 hours	10 hours	12 hours	4 days	7 days
@ 30°C	1 hour	8 hours	10 hours	3 days	5 days
@ 40°C	45 minutes	6 hours	8 hours	2 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: 3-5 bar • Nozzle size: 1.6-2.2 mm • The volume of thinner: 0-10% 	<ul style="list-style-type: none"> • Nozzle pressure: 120-130 bar • Nozzle size: 0.40-0.54 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	20-40	50-95	10.5-21.0

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: The surface must be at least 30 days old before overcoating. Remove curing compounds, oil, grease, and other oily contaminants. Remove all laitance and loose materials. Fill any large cracks or voids with an appropriate filler. IriPure™ can be used for etching the surface. Abrasive blast cleaning may be done if necessary and remove all dust.

Wood: Sand thoroughly and remove all dust. After priming, sand lightly again to remove raised fibers. To prevent bowing, prime all sides of the panel. For best results, the primer surface must be smooth and free of any defects. When sanding work from coarse to fine grades of paper, avoid sanding marks in the finish.

Fiberglass: The surface should be degreased thoroughly to eliminate traces of wax, paraffin and other contaminants. Wash with high-pressure fresh water and allow thorough drying. Disc abrade to an even and matt finish. Remove dust and debris prior to painting.

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 a compatible and 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 12 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.