IriThane HB™

General Description

IriThane HB ™ is a two-pack polyurethane topcoat. This product is used for interior and exterior areas and has good resistance against the spillage of oils and chemicals. It also has good weathering properties, excellent adhesion, good gloss and color retention. It is compatible with IRIS® priming systems. IriThane HB ™ can be applied at a DFT up to 100µm in a single coat without affecting gloss properties. The product is available in many color shades.

Product Technical Information

- Solids by volume 54 ±1 % (White, RAL9010) (vary due to different shades)
- Density 1.20 ±0.05 Kg /Lit (vary due to different shades)
- Flashpoint >24ºC
- Colors/Finish White(RAL9010) / Gloss
  (The product is available in many color shades)
- Mixing ratio Base to Hardener 81 to 19 (by volume)
- Suitable Thinner/Cleaner IriThin44

Note: Always add thinner after mixing the components.

- Pot Life

@ 10ºC	@ 23ºC	@ 30ºC	@ 40ºC
10 hours	6 hours	4 hours	2 hours

Drying & Recoating Times

Temperature	To touch	To handle	To recoat		Full cure (Minimum)
			Minimum	Maximum	
@ 10ºC	4 hours	16 hours	18 hours	Indefinite	10 days
@ 23ºC	2 hours	8 hours	10 hours	Indefinite	7 days
@ 30ºC	1 hour	6 hours	8 hours	Indefinite	5 days
@ 40ºC	45 minutes	4 hours	6 hours	Indefinite	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
• Nozzle pressure: 4-5 bar • Nozzle size: 1.2-1.8 mm • The volume of thinner: 5-10٪	• Nozzle pressure: 120-150 bar • Nozzle size: 0.38-0.43 mm • Spray angle: 40-80 degrees • The volume of thinner: 0-3 ٪	• Suitable. • The volume of thinner: 0-10٪

- **Recommended thickness** *

	Dry film thickness(µm)	Wet film thickness(µm)	Theoretical spreading rate (m^2/l)
Acceptable range	60-100	110-185	5.4-9.0
Recommended	80	150	6.8

* For V.S= 54%

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. Apply over suitable primer system or clean, intact, prepared existing system.

Primed area: Oil and grease should be removed by solvent cleaning according to SSPC-SP1. Remove salts and dirt by fresh water washing. Apply IriThane HB™ immediately after the quality of preparation has been approved.

Repair: Prepare damaged areas to original surface preparation, feathering edges of the intact coating. Thoroughly remove dust or abrasive residue before touch-up. Then use an appropriate primer system before applying IriThane HB™.

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 ºC) 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.