resoltech
ADVANCED TECHNOLOGY RESINS

New anti-UV formula

LIQUID RESIN ART A

LIQUID RESIN ART B

Epoxy Clear Coating System

- **Clear very high gloss topcoat & varnish**
- **Room temperature curing**
- **Self levelling**
- **Thick layer up to 5mm**

LIQUID RESIN ART A / B is a **clear epoxy coating system** formulated to produce high gloss finish with all the high mechanical characteristics epoxies offer compared to other coatings.

The system is formulated for the coating of all type of surfaces with high-end finish aspects requirements for inside exposure such as **floors, countertops, art pieces**, ...

One only coat should be necessary as the **film is thick enough**.
Should a second coat be applied, sanding is required between coats unless the second coat is applied within the first coat curing time.

On wood or other **porous materials**, it is **recommended to work in descending temperatures** so air does not release while LIQUID RESIN ART A / B is curing.
To avoid air release & entrapment while curing on porous materials, a layer of **1010 / 1014 water based epoxy primer** should be used.

LIQUID RESIN ART A

LIQUID RESIN ART B

MIXING RATIO

System	LIQUID RESIN ART A / B
Mixing ratio by weight & volume	2 / 1

The mixing ratio must be accurately followed. It is not possible to change the ratio, it would result in lower mechanical properties. The mixture should be thoroughly stirred to ensure full homogeneity.
It is important to note that epoxy systems tend to heat up much faster in a pot than as a thin film. It is therefore necessary to only mix the necessary amount usable within the given pot life. Keeping the mixture in flat open containers reduces the risks of exothermic reaction.

APPLICATION

The standard procedure of working with epoxy systems applies to this system. LIQUID RESIN ART A / B can be applied preferably by squeegee or brush. It is required to **deglaze, clean and degrease the support** before applying the varnish. The **average consumption** is **1.1kg/m² for 1mm thickness.**

It is recommended to have workshop temperature conditions between **18-25°C** in order to facilitate the mixing and the application. A lower temperature will increase the viscosity of the mix as well as its pot life. On the contrary, a higher temperature will reduce the viscosity and the pot life of the mix.

PHYSICAL CHARACTERISTICS

Visual aspect

LIQUID RESIN ART A : Clear slightly opalescent liquid
LIQUID RESIN ART B : Clear liquid
Mix : Clear liquid

Densities (ISO 1675, ±0.05)

References	LIQUID RESIN ART A	LIQUID RESIN ART B
Density at 23°C	1.15	1.00
Mix density at 23°C	1.10	

Viscosities (ISO 12058.2, ±15%)

References	LIQUID RESIN ART A	LIQUID RESIN ART B
Viscosity at 23°C (mPa.s)	4250	500
Mix viscosity at 23°C (mPa.s)	1900	

LIQUID RESIN ART A

LIQUID RESIN ART B

REACTIVITY

System	LIQUID RESIN ART A / B
Gel time on 70mL at 23°C (~4cm high)	1h15min
Time at exothermic peak on 70mL at 23°C	1h06min
Temperature at exothermic peak on 70mL at 23°C	57°C
Gel time on 2mm film at 23°C	1h37min

Reactivity measurements realized with Trombotech®

MECHANICAL PROPERTIES

System	LIQUID RESIN ART A / B
T_G after 16h at 60°C	57°C
Shore D Hardness after 16h at 60°C	87

T_G measured with Kinetech® (DMA type)
Hardness according to ISO 868

PACKAGING

Available kits of **LIQUID RESIN ART A / B :**

- 1.5 kg : (1+0.5) kg
- 6 kg : (4+2) kg
- 45 kg : (30+15) kg
- 600 kg : (400+200) kg

TRANSPORT & STORAGE

Keep containers sealed and away from heat and cold preferably between 10°C and 30°C in a well ventilated area. Our products are guaranteed in their original packaging (check expiry date stated on the label).

HEALTH & SAFETY

Skin contact must be avoided by wearing protective nitrile gloves & overalls or other protective clothing. Eye protection should be worn. Ensure adequate ventilation in work areas. Respiratory protection should be worn with ABEKP coded filters.

RESOLTECH issues full Material Safety Data Sheet for all hazardous products. Please ensure that you have the correct MSDS to hand for the materials you are using before commencing work.

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