

# Product Data Sheet:

## TOPCOAT 2-1

CLEAR COATING RESIN

1.5kg, 3kg, 7.5kg, 15kg Kits

Transparent

**TopCoat 2-1** is used to cover paintings, sculptures, statues, souvenirs, table tops or to encapsulate an item in a clear, glossy finish for eternity.

TopCoat 2-1 is primarily used to coat artwork but can also be used to make clear coatings and sealing surfaces in thin layers from 1-3mm (wood, paper, ceramics, etc), it can also be used in small castings up to 10mm thick for jewellery, keychains, souvenirs, encapsulating coins etc.

- Solvent and odour free
- Safe to use without use of face mask.
- High transparency
- Easy mixing ratio 2:1
- Good UV resistance
- Non-flammable
- Quick setting in thin layers

### HOW TO USE IT:

#### Mixing

TopCoat 2-1 is mixed at a 2 parts resin to 1 part hardener by volume or weight. The mixing ratio must be accurately followed. It is not possible to change the ratio as this would result in lower mechanical properties and the resin not curing properly. Mix by hand. Regularly scrape the sides, base, and corners of the mixing vessel to ensure full homogeneity. Mix until it is a uniform colour & consistency (usually 3-4 mins). The resin component has a purplish colour in the bottle, this is the strong UV inhibitor and will not be visible in a thin layer.

#### Application

Apply by hand pouring or brush/roller. The resin can be tinted any colour with the addition of polymer pigments available in solid and translucent colours. Eli-Chem's resi-TINT Acrylic Inks and resi-TINT MAX range are ideal.

**LEVEL:** Ensure your piece is perfectly flat and level, otherwise the resin will run to the lowest point and pool in the centre, leaving too little resin at the corners. On large canvas paintings / pictures you should tighten the canvas as much as possible or place a board underneath to support it uniformly.

**BUBBLES:** Any bubbles created by hand mixing can be easily popped by using a sharp object or by passing warm air over the surface of the resin with a blowtorch or hot air dryer on slow speed settings. Do not hold closer than 30cm to your artwork otherwise you risk creating ripples and dimples in the resin finish. If you use alcohol inks DO NOT use a flame to remove the bubbles, as alcohol is flammable.

**DUST:** You will need to protect the piece from dust accumulation for at least 12-24 hours. You can do this by using a raised cover or box to cover the piece.

### MECHANICAL & PHYSICAL PROPERTIES:

#### approx. values

Viscosity @ 25°C	~1500mPa.s
Mixing Ratio (weight or volume)	2 : 1
Colour	Transparent
Reactivity on 1,500g @ 25°C	~40
Shore hardness	
after 7 days, 23°C	ISO 868 Shore D1 84
Flexural modulus	ISO 178 MPa 2800
Pot Life @ 25°C (150g mixed mass)	~40 mins
Film Touch Dry	6-7 hours
Full Cure	7 Days

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### **SHELF LIFE/STORAGE:**

One year in sealed containers. Keep containers away from heat or cold. If stored in lower temperatures crystallisation of the resin can occur. Warm the bottle in a lukewarm water bath or near (not on) a heater to a maximum of 40°C and agitate the bottle regularly to melt the crystals completely. Allow product to cool back to room temperature before use. Performance will be unaffected.

Containers must be tightly closed after use to prevent moisture ingress.

### **SAFETY:**

Standard proactive safety hygiene and responsible procedures apply. Wear goggles, gloves and work in a well-ventilated room. Wear a respirator when sanding cured resin to avoid dust particle inhalation. Avoid skin contact (if there is contact wash thoroughly with soap and water). Do not eat, drink or smoke whilst working.

Refer to the Safety Data Sheet for full information on correct handling and application of the product.