

Curing Temperature & Timing Chart

All figures are approximate and vary by brand and batch. Always verify against manufacturer data. Times shown are for coating resins.

EFFECT OF TEMPERATURE ON COATING RESIN (1:1 RATIO, STANDARD BRANDS)							
Temp °F	°C	Viscosity	Pot Life	Touch Dry	Full Cure	Quality	Note
60°F	15°C	Very thick	60–75 min	36–48 hr	5–7 days	■ Risk of clouding	Too cold — warm resin first
65°F	18°C	Thick	55–65 min	28–36 hr	4–5 days	■ Possible haze	Borderline — add 10–15 min mix
70°F	21°C	Good	45–55 min	24–28 hr	72 hr	✓ Good	Acceptable working range
72°F	22°C	Ideal	45 min	22–24 hr	72 hr	✓ Best	Optimal for most brands
75°F	24°C	Fluid	40–45 min	20–22 hr	60–72 hr	✓ Excellent	Ideal — self-levelling best
77°F	25°C	Fluid	35–40 min	18–20 hr	48–60 hr	✓ Excellent	Upper end of sweet spot
80°F	27°C	Thin	28–35 min	16–18 hr	48 hr	■ Work faster	Pot life shortens quickly
85°F	29°C	Very thin	20–25 min	12–14 hr	36 hr	■ Exotherm risk	Reduce batch size by 30%
90°F	32°C	Watery	12–18 min	8–10 hr	24 hr	✗ Not recommended	Risk of cracking / yellowing

SWEET SPOT: 72–77 °F (22–25 °C)
 Store resin at room temperature. Warm cold components in a bowl of warm water (not hot) for 10 minutes before use.

BRAND-SPECIFIC NOTES & ADJUSTMENTS

- ArtResin** Perform well across 70–77 °F. Notably sensitive to humidity — do not use above 50% RH.
- Pro Marine** Excellent self-levelling at 75 °F. At 65 °F may show surface texture in finished cure.
- MAS Table Top** Shorter pot life than most 1:1 brands. At 77 °F work time reduces to ~28 minutes.
- Alumilite Clear** 5–7 minute pot life at 72 °F becomes 3–4 minutes at 80 °F. Have mold ready before mixing.
- EasyCast** Reliable across standard range. At below 65 °F may cure with a slight yellow tint.
- TotalBoat Halcyon** Marine formula handles temperature swings well. Good for garage studios in cool climates.
- Art 'N Glow** Very temperature-stable clarity. Slightly slower cure — allow 30 extra hours at 65 °F.
- Craft Resin** Formulated for home studio use. Performs well at 70–75 °F. Avoid below 65 °F.

HUMIDITY — THE HIDDEN VARIABLE
 Keep relative humidity below 50 % during pouring and the first 12 hours of cure.
 Above 50 % risks surface cloudiness. Humidity above 70 % can cause blushing (white haze) on the surface within the first hour — this cannot always be fixed.
 If your space is humid: run a dehumidifier 2 hours before pouring. Check with a hygrometer, not by feel.