

Epoxy Resin and Hardener Kits

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Adhesives & Tapes



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Epoxy kits mix resin and hardener to form a strong, gap-filling, waterproof bond and castable material that suits metal, wood, ceramic and fibreglass repairs and projects. Two-part epoxies come in tubes, syringes and larger casting kits.

Key Features

- 1:1 or 2:1 mix ratios
- Syringe and tube dispensing
- 5-30 minute working times
- Gap-filling and waterproof bonds
- Casting grades for models and art

Typical Uses in the Workshop

- Bond and repair broken metal and wood parts
- Cast small parts, river tables and art
- Fill and fair surfaces for finishing
- Embed components and fixtures

Safe Operation

1. Mix the exact ratio of resin and hardener
2. Mix thoroughly until uniform
3. Apply within the working time
4. Support the joint until cured
5. Post-cure at the recommended temperature

SAFETY NOTES

- Wear gloves - epoxy irritates skin and sensitises
- Work in a ventilated area
- Do not mix for casting without a mask (fumes)
- Keep resin and hardener separate until use
- Dispose of mixed waste correctly

Maintenance & Consumables

- Store bottles sealed upright
- Check the expiration dates
- Keep dispensing nozzles clean
- Store away from heat and sun
- Keep a mixing station stocked

Specification & Buying Notes

Stock 5-minute epoxy syringes for repairs and a casting kit for model work. Quality epoxies cure clear and strong; cheap sets yellow and stay soft.