



INSTRUCTIONS FOR USE - ENGLISH

613 RESIN

COLD MOUNTING

**CMR*-free, low-viscosity,
room-temperature-hardening embedding resin.**

Features

Resin 613 is a bi-component liquid epoxy resin hardening at room temperature.

Properties

This resin can be used with all types of material. It adheres perfectly to embedded sample surfaces, guaranteeing metallographic embedding without shrinkage.

The hardened resin is fully transparent.

Embedded samples are available after a hardening time of 10 hours at 20°C.

Hardening can be accelerated by placing the embedded samples in an oven at 70-80°C.



EMPLR613



Resin 613 is also available in a fast-hardening version 613F and hardening without temperature increase 613LT.

Usage

Samples must be deburred and degreased before embedding.

This resin is very user-friendly. Mix 2 parts 613 liquid resin with 1 part 613 resin hardener slowly for at least 3 minutes in a paper cup using a wooden spatula. Scrape the sides of the cup thoroughly whilst mixing to ensure a homogeneous mixture. The resin must be poured into the molds a maximum of 25 minutes after mixing the two components (any longer and the mixture becomes viscous).

One part resin is one spoonful of the spoon supplied with the resin. A mixing pot can fill two full 40 mm diameter molds.

To obtain a bubble-free sample, we advise using the M.M.808 pressure-curing device. This machine will guarantee completely bubble-free embedding.

To enable good impregnation of porous or complex form samples, we recommend using the M.M.818 vacuum impregnation machine.

Storage

Packs of resin must be stored in a cool place out of direct sunlight.

Precautions

It is strongly advised that suitable gloves and goggles are worn whilst handling the resin and hardener.

Read the Safety Data Sheet before using.

If the resin is spilt, use an alcohol-soaked cloth to clean the affected surface.

If the resin has hardened; use a bio-solvent and scrape with a sharp object to remove the resin from the affected surface.

Technical data	613 RESIN
Material	Epoxy
Pack format	Kit containing 1000 ml liquid resin + 500 ml hardener Code KIT0600613 00 Liquid resin 1000 ml - Code 06 02613 00 Hardener 500 ml - Code 06 01613 00
Dosage	2 parts resin to 1 part hardener
Appearance	Transparent and colourless
Polymerization time	10 h at 20°C
Hardness	85 Shore D
Temperature exothermic	50°C**
Volumetric shrinkage	Very low, 0 µm if used with the M.M.808 machine
Presence of CMR*	None
Suitable for impregnation	Yes

Please note that the mixture must be dispensed by volume, not by weight.

* CMR: Carcinogenic, Mutagenic, Reprotoxic.

** Exothermic temperature during polymerization for a 40g resin sample at 20°C.

M.M.808: pressure-curing device for cold mounting resins.

CODE 08 00808 20



M.M.818: vacuum impregnator for cold mounting resins.

CODE 08 00818 00

