



INSTRUCTIONS FOR USE - ENGLISH

607 RESIN

COLD MOUNTING

**Metallographic embedding resin
ideal for complex shaped samples
and edge examinations**

Application

For metallographic analyses: gap-free embedding of cutting samples.

Material

Quick-hardening, cold-curing three-component resin based on modified polyester in the form of powder and liquid.

Properties

After mixing, the 607 RESIN is pourable for approximately 4 min; its good flow properties ensure that even the finest details are filled. Curing time at room temperature (approx. 22 °C): 7– 8 min. When correctly processed, the material's very good adhesion to metal and extraordinarily low shrinkage rate of 0.1–0.2 % allow gap-free embedding of even complicated specimens. Good abrasion resistance combined with excellent marginal seal guarantee precision-cast edges. After polymerisation, the 607 RESIN can be mechanically processed (for example, ground, cut, drilled, polished).

Solubility

The 607 is resistant to acids and alkalis; when cured, it is insoluble in esters, ketones and chlorinated hydrocarbons. Polyethylene and Hostaphan films are not subject to chemical attack, and are therefore suitable for insulating and covering the 607 RESIN dough and for lining moulds.

Processing preparations

The surfaces of the specimen which come into contact with the 607 RESIN must be clean and degreased with – for example – isopropanol or light gasoline. Polyethylene or silicone moulds should be used for embedding specimens.

Mixing

Mix two parts by weight or two parts by volume of LIQUID I with one part by weight or one part by volume of LIQUID II. Approx. two parts by weight or two parts by volume of powder are then stirred into the liquid mixture.

Examples of dosing

1. By weight

two parts by weight of LIQUID 1
one part by weight of LIQUID 2
two parts by weight of POWDER

2. By volume

two parts by volume of LIQUID 1
one part by volume of LIQUID 2
two parts by volume of POWDER

5. By volume

two parts by volume of LIQUID 1
one part by volume of LIQUID 2
three parts by volume of POWDER

Thereafter, let the dough soak for approx. 1 minute.

The powder must be thoroughly stirred in to ensure homogeneous distribution. Lump formation must be avoided. Liquids I and II can be pre-mixed to facilitate processing, but should not be stored for more than 5 days. In such cases, processing is as with a two-component material. (The powder is stirred into the pre-mixed liquids).

Avoid a whipping motion when mixing, as this would lead to the formation of air bubbles.

At least mix dough carefully and slowly pour a thin stream of the mixture over the specimen, to allow any air in the material to escape. Mixing vessels and spatulas can easily be cleaned with esters, ketones and chlorinated hydrocarbons as long as the resin is still plastic; once hardened, the 607 RESIN is very difficult to remove. Do not allow the material to cure on a glass panel, as its good adhesion to glass would cause damage to the panel.

Curing

The 607 RESIN begins to cure when the powder is added. When mixing larger quantities, the polymerisation heat can be carried off by placing the vessel in cold water (do not immerse).

Note

The 607 RESIN should be stored in a cool, dark place, in tightly sealed containers. Contamination must be avoided.

Danger/Safety advices

Before handling the product, read the respective SDS carefully. www.lamplan.com

Delivery units combination packs 607 RESIN

750 g POWDER
500 ml LIQUID 1
250 ml LIQUID 2
measuring spoon

1500 g POWDER
1000 ml LIQUID 1
500 ml LIQUID 2
measuring spoon

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