

DIRECTIONS FOR USE OF *ZMORMOUNT*.

...a fast self-settling, translucent plastic for mounting metallographic specimens, encapsulating components, printed circuitry, casting, binding, etc.

A product of

FULTON METALLURGICAL PRODUCTS CORP

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For chemical emergency call Chemtrec 800-424-3900
UN #1247

ZMORMOUNT is a simple, convenient powder-liquid combination. It takes only a few minutes of mixing time and approximately thirty minutes curing time to make dense-surfaced, translucent mounts. It self-hardens at normal (72°) room temperature by providing its own exothermic reaction.

There is no need for expensive and complex equipment – no need for heat or pressure. The only requirements are two measuring graduates, a few ordinary mounting rings, a small glass slab, a mixing jar, spatula – and *ZMORMOUNT* self-setting resin.

DIRECTIONS

Place your mounting rings on a glass slab (or stainless steel surface if you prefer) and center your specimens in rings. Then proportion *ZMORMOUNT* in separate measuring graduates, two parts of powder by volume to part of liquid. Pour the liquid into a small glass mixing beaker and then add the powder. Both ingredients should be at room temperature of 70°- 75°F. Stir slowly until the mixture thickens to a consistency of light syrup (in cases where small printed circuit holes or spaces must be filled, pour enough *ZMORMOUNT* to fill these spaces while the mixture is still thin, and then continue to stir to light syrup consistency). When this is reached, finish pouring to slightly below the top of the mounting ring. In approximately 30 minutes, your mounts will have cured and can be easily removed from the ring. Let mounts cool for a short time before finishing and polishing.

Room temperature actually determines curing time. If your laboratory is under 70°F, the cycle of hardening may be lengthened 5 – 10 minutes. The cooler the room; the longer the time. Similarly, cold ingredients or cold vessels will retard curing. In room temperatures of 85° or more **ZURMOUNT** is adversely affected and such conditions as frothing or excessive bubbling may be noted. This can be avoided by mounting in an area where the temperature is closer to 70°F than 80°F.

Look what **ZURMOUNT** will do for you -

1. It is convenient, easy to handle, self-hardens quickly.
2. It saves time. Half-a-dozen mounts can be prepared almost as fast as one, many more if desired.
3. It assures dense, hard, professional mounts with little or no edge breakdown under an electron microscope.
4. It eliminates scribing or engraving. Previously prepared tags, coded with our identification numbers or other data, can be placed on top of the mounts as they harden. This provides permanent identification.
5. It is easy to grind and polish. Sands, buffs and polishes smoothly. It will not smear onto surface of specimen, not contaminate polishing cloths.
6. It has practical resistance to most acids and etching reagents.
7. It is economical, both in basic material cost and in time and labor saved. Further economy is reflected in the elimination of costly equipment.
8. It prevents possible specimen change that might result from application of outside heat involved in other methods.

PHYSICAL PROPERTY INFORMATION

For hardness tests, Tukon_o or Knoop methods can be adapted to **ZURMOUNT** mounted specimens. The Knoop is 16 to 18. If Rockwell hardness tests are wanted, support specimen on a metal base that goes completely through the mount.

Hydrochloric, hydrofluoric, and sulfuric acids, *in their normal dilution and for normal exposure*, will affect **ZURMOUNT**, very little. Strong nitric acid rapidly oxidizes its surface. Glacial acetic acid attacks **ZURMOUNT**, and phenol *will slowly* attack it.

SOLVENTS

ZURMOUNT is soluble in the acetates, ketones and chlorinated hydrocarbons. Ethylene dichloride is the best and quickest solvent should the specimen need to be removed.

ZURMOUNT liquid is flammable and should not be exposed to open flame. It should also be kept away from heat, steam and direct sunlight. **ZURMOUNT** is toxic if ingested. *Continued* inhalation of concentrated fumes may be irritating, but little danger exists under Normal laboratory quantities in a room with modern ventilation. Fully cured **ZURMOUNT** is completely non-toxic and non-allergenic.

ADDITIONAL INFORMATION ON USING **ZURMOUNT**.

Mix powder and liquid well but do not stir violently or air bubbles will be incorporated into the mix. When mixing, always pour the powder into the liquid, not the reverse. Parting agents or separates are seldom required. Tools and beaker can be easily cleaned by scraping under cold water after **ZURMOUNT** has set.

NORMAL USE

ZURMOUNT is ideally suited for use in metallurgical and research laboratories throughout the industry; in educational and research institutes; for military and geological use; and in commercial testing laboratories of all kinds.

OTHER USES

ZURMOUNT is a good sealing agent or filler of a permanent nature. It can also be quickly and easily used to build up surfaces, or to reproduce reverse images. It can be used to hold complicated units together or as an agent to facilitate chucking or small or irregularly shaped part.

ZUMOUNT, ADVANTAGES

- ✓ Self-cures in approximately 30 minutes at room temperature of 70°.
- ✓ Requires no heat or pressure equipment
- ✓ Dozens of mounts can be made as quickly as one.
- ✓ A wide variety of dependable uses in the Electronic, Nuclear, Electrical Equipment, Missile, Metalworking and Aerospace industries. Especially adaptable for the protection of miniaturized or highly sensitive components where external and internal pressures must be avoided.

FOR INDUSTRIAL USE ONLY BY COMPETENT PERSONNEL

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