

# E 30 water effect

Extremely transparent compound , mostly used in the artistic field, in handicraft and model craft, to realize transparent castings for water effect, or to include objects inside. Self-levelling, if casted on a flat area, after cure the result is a bright surface.

Two- components product, to mix before use.

A component: liquid epoxy resin solvent- free, from bisfenol F.

B component : hardener amine – base.

## Components properties:

	COMP. A	COMP.B
VISCOSITY	cPs . 3.700- 4.000	cPs. 400
DENSITY	gr/l. 1,15	gr/l. 1,03
COLOUR GARDNER	max 1	1
RATIO A/B	gr. 100	gr. 60

## Hardening cycles:

### 200gr mass

Pot- life of blend at 25 C°	30 minutes
Seeming hardening	8 hours
Complete hardening	48 hours

Pot- life : time to work with the blend, before it begins to harden. For great bulks, the time gets shorter.

Seeming hardening: the solid or semi- solid state the product reaches after the heat is dissipated.

Complete hardening: the solid state, solid and not deformable, with its final strength.

Room temperature has a great influence both on the viscosity and on the times of hardenings.

At low temperatures viscosity increases; on the contrary, at high temperatures, viscosity decreases. But this does not intervene in the final result.

On the contrary, **temperature** and **thickness** work together and interfere in the final result:

**The bigger is the mass, the lower is the dissipation of output heat.** So, hardening times considerably differ in relation to the thickness of the layer, and a 3cm layer takes less than half time to harden, comparing it to a 10mm layer.

**Humidity** can cause a matt surface. In case, it can be polished.

## Properties after hardening

Tensile strength	N/mm2	68	
Tear strength	%		3,1-3,5
Elastic modulus	N/mm2	3.000	
Blending strength	N/mm2	95-110	
Water absorption (10gg)	%	0,5	
Distortion temperature	C°	80	
Colour	Gardener	max 2	

After hardening, the compound is neutral and non-toxic, fit for direct contact with alimentary and cosmetic matters. Exposed to the light continuously, it yellows.

## Hints to obtain the best results:

- Keep the product in a warm place, never below 5 C°, to allow it to maintain a fluid consistence.
- Always batch the two components by weight, using an accuracy scale, and do not change the ratio.
- Blend carefully the two components with a long, narrow spittle, scraping the bottom and all the container, to obtain a homogeneous blend, and slowly, to avoid air bubbles. If this happens, help the escape of the air bubbles using a tool like a long needle.
- Work in warm places ( room temp. not below 18 C°), and during the hardening phase, keep the object in a warmer temp ( 30- 40 C°, if possible)
- Hygiene rules: wear protective gloves and avoid contact with eyes and skin. After use wash your hands carefully with soap, clean the surfaces with paper and the tools with alcohol or nitre solvent.



Ideas and creative solutions

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