

## L-9821W 2-Functional Water-based UV Polyurethane Resin

### Description

**L-9821W** is a water-based 2-functional UV polyurethane acrylic resin modified with a special process. It has good water solubility, high flexibility, good wettability, good adhesion, good polishability, and low yellowing.

### Technical Data

|                                    |                |
|------------------------------------|----------------|
| Appearance                         | White emulsion |
| Viscosity (25°C, CPS)              | 300 - 1,000    |
| Color Value (Gardner)              | ≤ 1            |
| UV Component (%)                   | 60             |
| Density (g/cm <sup>3</sup> , 25°C) | 1.1 ± 0.1      |
| PH Value                           | 3 - 6          |
| Functional Groups                  | 2              |

### Product Features

Good water solubility, good water dilution, good boiling resistance, good chemical resistance  
Good adhesion, especially good wetting and adhesion to wood  
Excellent elasticity and flexibility, it is the first choice product for adjusting the flexibility of paint films.

### Precautions

1. The recommended diluent is tap water : isopropanol (or ethanol) at a ratio of 1 : 1. Additional solvents such as PMA may also be added as needed in the formulation.
2. This resin can be used on its own to formulate a clear varnish, suitable for sealing, protection, or gloss finishing on metal surfaces or wood substrates.
3. For non-absorbent substrates requiring high chemical and solvent resistance, hot-air drying is recommended prior to UV curing.
4. Curing conditions: a UV lamp with 3000 W or higher output. The optimal curing effect and fastest speed are achieved when the lamp-to-surface distance is within 7 cm; if the distance is greater, the exposure time should be appropriately increased.

### Applications

Waterborne wood sealers and topcoats; waterborne UV coatings for paper; waterborne UV coatings for plastics; and waterborne UV protective varnishes for leather and synthetic leather

## Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 20 kg / 200 kg per drum

**Tips:L-9821W 2-functional water-based UV resin has good flexibility, good boiling resistance and good chemical resistance.**

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.