

# Acronal<sup>®</sup> 700 L approx. 50% in ethyl acetate

<b>Product Description</b>	Acronal 700 L is an acrylic resin dissolved in 50% ethyl acetate that is used as a plasticizer for industrial coating applications.
<b>Key Features &amp; Benefits</b>	<ul style="list-style-type: none"><li>- <i>Excellent adhesion</i></li><li>- <i>Good flexibility</i></li><li>- <i>Resistant to light aging</i></li></ul>
<b>Chemical Composition</b>	Co-polymer from n-butyl acrylate and vinyl isobutyl ether dissolved in 50% ethyl acetate

## Properties

### Typical Characteristics

Appearance		resin solution
Non-volatile matter	%	49 – 51
Viscosity at 23°C	cps	500 – 800
Shear rate D	s <sup>-1</sup>	25
Iodine color number		0 – 2
Density at 20°C	g/cm <sup>3</sup>	~ 0.96
Flash point	°C	- 4

### Solubility

Soluble in esters, glycol ethers, ketones, aromatic and chlorinated hydrocarbons, mineral spirits, and many plasticizers.

### Compatibility

Compatible with nitrocellulose, vinyl chloride polymers, polyacrylates, natural resins, and polyurethanes.

\* These typical values should not be interpreted as specifications. Solubility and compatibility should be tested for each individual combination.

## Application

Acronal 700 L approx. 50% in ethyl acetate is used, particularly in combination with nitrocellulose, for formulating paper and film coatings, sealing wax, coatings for light metals and plastics and cellulose lacquers. Combined with chlorinated binders such as the Laroflex<sup>®</sup> MP grades, it yields coatings that are very resistant to hydrolysis for various substrates such as metals, concrete, or fiber cement. Acronal 700 L approx. 50% in ethyl acetate may also be used as a permanent plasticizer in urethane sealants or coatings. In many coating systems, it will improve the adhesion of primers.

Acronal 700 L approx. 50% in ethyl acetate is recommended for applications such as:

- Interior/exterior general industrial metal coating applications
- Interior/exterior concrete coating applications
- Automotive OEM or refinish applications
- Urethane elastomers or sealants

### Processing

Acronal 700 L approx. 50% in ethyl acetate is not suitable for use as a sole binder. It should be used in combination with other binder systems such as nitrocellulose, PVC, or polyurethanes for which it serves as a plasticizer. Polymeric plasticizers like Acronal 700 L approx. 50% in ethyl acetate can substitute for classic plasticizers, like phthalates, but usually require a higher dosage rate.

Coatings based on Acronal 700 L approx. 50% in ethyl acetate adhere well even on difficult substrates and are resistant to embrittlement due to aging. Acronal 700 L approx. 50% in ethyl acetate is not volatile, so the flexibility of films practically does not change with time. Acronal 700 L approx. 50% in ethyl acetate is hard to saponify and tenacious. The degree of polymerization of Acronal 700 L approx. 50% in ethyl acetate is lower than that of Acronal 4 L approx. 50% in ethyl acetate. Acronal 700 L approx. 50% in ethyl acetate offers greater efficiency than Acronal 4 L, but lesser permanence.

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## Safety

### General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

### Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal 700 L approx. 50% in ethyl acetate.

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## Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

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## Important

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