Acronal® 700 L approx. 50% in ethyl acetate

General	Acronal® 700 L is an acrylic resin dissolved in 50% ethyl acetate that is used as a plasticizer for industrial coating applications.
Key features & benefits	Excellent adhesion Good flexibility Resistant to light aging
Chemical nature	Co-polymer from n-butyl acrylate and vinyl isobutyl ether dissolved in 50% ethyl acetate

Properties

Appearance

resin solution

Typical characteristics
(should not be interpreted as specifications)

Non-volatile	49 – 51%
Viscosity at 23°C	500 – 800 cps
Shear rate D	25 s^{-1}
Iodine color number	0 – 2
Density at 20°C	~ 0.96 g/cm³
Flash point	- 4°C

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® 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. 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 and sealants

Formulation Guidelines

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 cellulose nitrate, 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.

For further detailed application information please contact our Technical Support Department.

Safety
When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note
The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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