

Acronal® A 145

Chemical Nature

Aqueous dispersion of an acrylate copolymer containing carboxyl groups

Properties

Typical Properties

Solid Content (DIN EN ISO 3251)	%	~ 50.5
pH (DIN ISO 976)		~ 7.5
Viscosity (DIN 53211(23 °C, Orifice 4 mm)		18 – 20 s
Glass transition temperature	°C	approx. -45n

* These typical values should not be interpreted as specifications.

Application

Features

Acronal A 145 is used in the manufacture of self-adhesive labels, films and tapes. As it is hardly affected by plasticizers, it is particularly recommended for coating plasticized PVC film. However, since the effect of plasticizers on pressure-sensitive adhesives depends on the type of quantity of the plasticizers in the film, thorough trials, particularly storage trials, must be carried out before starting production of such articles.

Processing

If Acronal A 145 is to be mixed with another dispersion, the pH should be adjusted to the slightly alkaline range. Note that the viscosity increases when the pH is raised.

The mechanical stability of the formulation can be improved by adding a small quantity of thickener. In the event of poor wetting, it is often helpful to add about 0.5% of a wetting agent (e.g. Lumiten® I-SC).

Commercially available antifoaming agents (e.g. FoamStar PB 2706) are suitable for suppressing foam. Usually the addition of 0.05 – 0.2% of the antifoaming agent in the formulation is sufficient.

We recommend adding a preservative to adhesives based on Acronal A 145 to protect from microbial attack. The suitability of such additives must be verified and monitored in trials.

Adhesives based on Acronal A 145 can be applied using commonly available application devices such as flat blade, Meyer-bar, air brush, reverse roll, reverse gravure, curtain-coater and nozzle. When developing adhesives based on Acronal A 145 with other ingredients of formulation and its ability to wet and adhere to different substrates etc. are affected by a variety of factors which are too numerous for us to take into account in our own trials.

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 A 145.

Storage

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

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