**Acronal® A 240**

**Adhesive Raw Materials**

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**Chemical nature**

Aqueous dispersion of an acrylate copolymer containing carboxyl groups

**Technical data**

- **Solid content**: approx. 51%
- **pH value**: approx. 5.0 – 6.5
- **Flow time**: approx. 15 – 19 s
- **Viscosity**: approx. 40 – 80 mPa·s
- **Glass transition temperature**: approx. –30 °C

The exact specifications can be found in the specification data sheet.

**Application area**

Acronal A 240 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 and 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 240 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. Lumiten E-L) 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 240 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials. Adhesives based on Acronal A 240 can be applied using commonly available application devices such as flat blade, Meyer-bar, air brush, reverse roll, reverse gravure, curtain-coater and nozzle.

Manufacturers must carefully carry out their own trials when developing pressure-sensitive adhesives based on Acronal A 240, as there is a host of factors in production and processing that we cannot cover exhaustively in our trials which can influence compatibility with other components of the adhesives, their wetting of and adhesion to different substrates etc.

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