**Chemical nature**

Aqueous dispersion of an acrylate copolymer with carboxyl groups also including vinyl acetate

**Technical data**

- **Solid content**: approx. 50%
- **pH value**: approx. 3.0 – 5.0
- **Viscosity EN ISO 3219**: approx. 15 – 35 mPa·s
- **Viscosity EN ISO 2555**: approx. 45 – 80 mPa·s

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

**Advantages**

Acronal 500 D is used in the manufacture of adhesives for bonding PVC film to absorbent substrates such as wood, paper and board. It can be used together with Acronal A 311 for laminating glossy film. Acronal 500 D films are largely immune to plasticizer migration. As the film yielded by the dispersion is soft, it can also be used for the production of flocking adhesives.

**Applications**

- If Acronal 500 D is to be mixed with another dispersion, the pH should be in the mildly alkaline range. This is particularly important in the case of mixing with natural rubber latex: Acronal 500 D must be adjusted to pH 8 – 8.5 with ammonia solution and then stirred into the latex. Proceeding the other way round can result in the mixture coagulating.
- The Acronal 500 D polymer can be crosslinked by adding zinc oxide or reactive urea or melamine-formaldehyde resins. Heat alone does not bring about crosslinking.
- 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 500 D to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.
- Manufacturers must carefully carry out their own experimentation when developing products based on Acronal 500 D, as there is a host of factors that we cannot cover exhaustively in our trials which can influence compatibility with other components of the adhesives, interaction with the different materials bonded or coated with them, stability in storage etc.

The data contained in this publication are based on our current knowledge and experience. They do not constitute the agreed contractual quality of the product and, in view of the many factors that may affect processing and application of our products, do not relieve processors from carrying out their own investigations and tests. The agreed contractual quality of the product at the time of transfer of risk is based solely on the data in the specification data sheet. Any descriptions, drawings, photographs, data, proportions, weights, etc. given in this publication may change without prior information. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

Edition: February 2015

TI/ED 1149 e

This data sheet will be rendered invalid if it is superseded by a later version.

® = registered trademark of BASF SE