

# Acronal<sup>®</sup> 5411

## Polymer Dispersions for Construction

**Chemical nature** Acronal<sup>®</sup> 5411 is an aqueous dispersion based on acrylic ester copolymer (bi-modal, APEO-free) for the manufacture of transparent sealants and construction adhesives.

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### Properties

**Physical form** Liquid dispersion

**Technical data**  
(no supply specification)

<b>Solids content</b>	DIN EN ISO 3251	Approx. 62 %
<b>pH Value</b>	DIN ISO 976	6.4 – 7.2
<b>Viscosity</b>	DIN EN ISO 3219 (23 °C, 250 1/s)	40 – 250 mPa·s
<b>Glass transition temperature</b>	DIN EN ISO 11357	Approx. 7 °C

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### Application

**Application areas** Acronal<sup>®</sup> 5411 is used as a binder for the manufacture of highly transparent sealants and construction adhesive. Sealants fabricated with Acronal<sup>®</sup> 5411 show a fast transparency development and a very good final transparency because of its high solid content. There is no need for film forming agents. The resulting sealants show an excellent adhesion to all usual surfaces in construction. The adhesion to glass and ceramics can be even better if a silane is added to the formulation.

**Processing** In transparent formulations the use of fillers is certainly limited. To formulate a transparent sealant or construction adhesive out of Acronal<sup>®</sup> 5411, thickeners like Rheovis<sup>®</sup> HS 1169, Rheovis<sup>®</sup> AS 1180, or Rheovis<sup>®</sup> PU 1190 are recommended. To support a low surface tackiness, some surfactant can be added (e.g. 0.5 % Disponil<sup>®</sup> SDS 15).

A plasticizer (e.g. Hexamol<sup>®</sup> DINCH) and/or transparent fillers (Aerosil<sup>®</sup> or glass spheres) can be added in limited volumes to counter act volume shrinkage while drying and to get better sag resistant properties and more flexibility in the final sealant.

If there is no mixing equipment with vacuum available, regular defoamers such as FoamStar<sup>®</sup> PB 2706 can be used. The suitability of such additives must be determined and monitored in tests.

## Technical Data Sheet

We recommend adding preservatives to sealants and adhesives that are based on Acronal® 5411 to protect them from microbial attack and secure constant quality also during a longer storage time. The suitability of such additives must be determined and monitored in tests.

### 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. 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.

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