



# Product Information

## Acronal® 5041 ap

### Polymer Dispersion for Construction

Acronal® 5041 ap is an APEO-free, aqueous Styrene / Acrylic ester dispersion designed for multiple construction application.

#### Chemical Nature:

Styrene / Acrylic ester copolymer dispersion

#### Benefits

- Excellent adhesion on various substrates including low surface energy substrates
- Excellent water resistance
- Fast curing
- High pigment binding power

#### Features

- APEO free
- Ammonia free
- Formaldehyde free

#### Properties

Product specification*	Property	Unit	Value
Product specification*	Solids content	%	52 ± 1
	pH value		7.2 – 8.0
	Viscosity at 23 °C, 3/100 rpm	mPa·s	40 – 300
Other properties of dispersions	MFFT	°C	Approx. 0

\*The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

#### Note

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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## Applications

### Areas of application

Acronal® 5041 ap is used to manufacture building adhesives such as fast cure ceramic tile adhesives in paste form because of the good adhesion to different substrates, also after storage under water, and the fast-drying behavior.

With Acronal® 5041 ap it is possible to formulate universal primer and bonding aids for absorbent and nonabsorbent substrates (e.g. even glazed tiles). The fine particles of the dispersion result in deep penetration in porous substrates. The low water absorbency of the dispersion film makes it possible to seal the surface effectively. At the same time, the high pigment binder power of Acronal® 5041 ap stabilizes dusty surfaces. The high inherent strength of the dispersion film has a very good adhesion promoting effect.

Other typical uses are membranes with high resistance to water (e. g. mastic wet room coating) and water vapor (e. g. damp proofing).

Trials must be performed in advance for each specific application, because the performance of Acronal® 5041 ap can be influenced by other additive and material involved.

### Processing

Acronal® 5041 ap can easily be incorporated in formulations with all standard mineral fillers. If required, the stability of highly filled formulations can be ensured with small quantities of dispersants such as Dispex® CX 4320 or Dispex® AA 4935.

The viscosity level can be adjusted with polyacrylates such as Rheovis® AS 1125, Rheovis® AS 1131 or Rheovis® HS 1169 and cellulose ethers. Standard commercial antifoams such as FoamStar® PB 2706 and FoamStar® SI 2210 can be used to suppress foaming. In general, it is sufficient to add 0.05 – 0.2 % antifoam in relation to the adhesive mixture.

Although Acronal® 5041 ap is protected against microbial attack, preservatives must still be added to the finished products to ensure consistent quality even after a long storage time.

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## 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

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

### Labeling

According to all the data at our disposal, Acronal® 5041 ap does not need to be labelled as a dangerous substance or preparation as defined in the relevant local directives according to their current status.

## Storage

Acronal® 5041 ap must not be allowed to come into contact with metals or alloys that are susceptible to corrosion. It is very important to ensure that containers are kept tightly closed or that the airspace in storage tanks is kept saturated with water vapour. Exposure to frost or sources of intense heat must be avoided.

Acronal® 5041 ap contains sufficient preservative for transportation. More preservative must be added during subsequent storage to protect the material against microbial attack and tank hygiene measures must be adopted (cf. our Technical Information Bulletin "Storage tanks for polymer dispersions").

Acronal® 5041 ap has a shelf life of approximately 9 months from date of manufacture at temperatures between 10°C to 30°C.

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