

# Product Information

## Acronal® DS 6266 ap

### Polymer dispersion for all purpose exterior coating

Acronal® DS 6266 ap is an anionic polymer dispersion polymer with a medium viscosity. It consists of small, finely divided particles. It forms a clear transparent, tack free film. It is distinguished by high resistance to blushing, low water absorption and high weathering resistance.

#### Chemical Nature:

Polymer dispersion of acrylic and methacrylic acid esters

#### Benefits

- Ideal for high performance flexible interior and general purpose exterior wall coating
- It is also suitable for wood stain application.
- Robust and flexible formulation

#### Features

- Outstanding stability
- Excellent water whitening and water resistance
- Good dirt & stain resistance
- Coverage of hairline cracks
- APEO-free

#### Properties

<b>Product specification*</b>	Solids content	%	48 ± 1
	pH value	pH	7.5 – 8.5
	Viscosity at 23 °C, RV DV 3/100	mPa s	200 – 1000
<b>Other properties of dispersions</b>	Minimum film-forming temperature (ISO 2115)	°C	approx. 13
	Density (ISO 2811-1)	g/cm <sup>3</sup>	approx. 1.04
	Resistance to frost	°C	≤ -10
	Type of dispersion		anionic

\*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® DS 6266 ap is mainly used as a binder for all purpose exterior and interior flexible paints. Due to its high resistance to blushing, paint formulated with Acronal DS 6266 ap shows excellent water resistance and low water absorption. Acronal DS 6266 ap dispersion is designed for flat to semi-gloss coating.

### Processing

Emulsion paints can be produced in the usual manner in a high-speed impeller mill such as a Dissolver or in a heavy-duty mixer. It is advisable to disperse the pigments and extenders with wetting and dispersing agents such as Dispex® AA 4030 in combination with water-soluble polyphosphates, to ensure that the viscosity of the paint remains stable over long-term storage periods.

Acronal® DS 6266 ap has high pigment binding power, and very good compatibility with pigments and fillers.

Various thickeners can be added in order to adjust the viscosity and workability. Rheovis® AS 1125 ap is recommended for regulating low-shear rheology, Rheovis® PU 1280 for the mid- to high-shear viscosity range. These may be used in conjunction with cellulose-based thickeners, e.g. hydroxyethyl cellulose.

Solvents need to be added in order to enable the polymer to form a uniform film at temperatures below 13 °C. Glycol ethers and their acetates, or Texanol, either alone or in combination, are particularly effective. It is usually sufficient to add these solvents at a level of 1-2 %, expressed as a proportion of the total formulation. Short-chain alcohols and glycols improve the freeze-thaw resistance of paints, but they cannot be used to lower the film-forming temperature. If possible, solvents should not be added direct to the polymer dispersion, they should be mixed with the pigment paste and then added.

Like all finely divided polymer dispersions, Acronal® DS 6266 ap has a tendency to foam. It is therefore necessary to add a commercial defoamer at the level of 0.3 – 0.6%. Trials should be carried out to test the effectiveness of the defoamer.

Although Acronal® DS 6266 ap itself is resistant to microorganisms in the form in which it is supplied, preservatives need to be added to products formulated with Acronal® DS 6266 ap to protect them from attack by microorganisms over long periods in storage. Trials should always be carried out to test the compatibility and efficacy of the preservatives.

Customers have to carry out their own trials when developing and processing products based on Acronal® DS 6266 ap. The compatibility of Acronal® DS 6266 ap with other ingredients of formulations, its effect on mixing processes and its adhesion on different substrates etc., are affected by a variety of factors which are too numerous for us to take into account in our own trials. This includes testing its stability by storing it at ca. 50 °C to confirm that its viscosity remains stable

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## Safety

### General

The usual precautions for handling chemicals must be observed. These include the measures set out in the guidelines of the organizations responsible for safety at work, in particular, good ventilation and fume extraction at the workplace, care of the skin and the wearing of eye protection.

### 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.

### Labelling

According to all the data at our disposal, Acronal® DS 6266 ap does not need to be labeled as a dangerous substance or preparation as defined in the relevant local directives according to their current status.

## Storage

Acronal® DS 6266 ap must not be allowed to come into contact during storage with metals or alloys that are susceptible to corrosion. It is important to ensure that containers are kept tightly sealed, and the headspace of bulk storage tanks must be kept saturated with water vapor. This product must not be exposed to high temperatures, and it must be protected from frost.

Acronal® DS 6266 ap has a shelf life of nine months at 10 – 30 °C, provided due attention is paid to the hygiene of tanks and storage facilities.

We would recommend treating this product with a biocide in order to prevent problems with microorganisms from occurring during storage and processing.

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## Contact Us

BASF East Asia Regional Headquarters Ltd  
Dispersions & Pigments Asia Pacific  
45<sup>th</sup> Floor, Jardine House, No. 1,  
Connaught Place Central,  
Hong Kong

Phone: +852 2731 0111  
Fax: +852 2731 5670  
E-mail: [Dispersions-Pigments-Asia@basf.com](mailto:Dispersions-Pigments-Asia@basf.com)  
[www.dispersions.asiapacific.basf.com](http://www.dispersions.asiapacific.basf.com)