Product Information
Acronal® PLUS 7865
Polymer Dispersion for High Quality Elastomeric Architectural Coatings

Acronal® PLUS 7865 is an APEO free anionic polymer dispersion with a medium viscosity, consisting of small, finely divided particles. Films made from Acronal PLUS 7865 show good DPUR and have an excellent balance of high strength and flexibility.

Chemical Nature:
Polymer dispersion of acrylic ester and styrene

Benefits

- High Elongation and Tensile Strength
- Best in class Dirt Pickup Resistance
- Good water resistance

Features

- APEO and formaldehyde free
- Medium Viscosity
- Fine particle size

Properties			
Product specification*	Solids content	%	50 ± 1
	pH value	pH	8.0 – 10.5
	Viscosity at 23 °C, LV DV 3/60	mPa s	500 – 1600
Other properties of dispersions	Minimum film-forming temperature (ISO 2115)	°C	15
	Density (ISO 2811-1)	g/cm^3	approx. 1.04
	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.

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Applications

Areas of application

The main field of application for Acronal PLUS 7865 is as a binder for elastomeric wall coating

Processing

Products formulated with Acronal PLUS 7865 can be made up in the usual manner with a high speed mixer. Dispex® CX 4320 is recommended for dispersing titanium dioxide pigments in propylene glycol or propylene glycol/water. Dispex® AA polyacrylate types can be used as a co-dispersant or the sole dispersant, particularly if high levels of calcium carbonate are used.

Associative thickeners, e. g. Rheovis PE 1332, PU 1280 and PU 1191, are particularly suitable for adjusting the viscosity and flow, because they do not give rise to a yield point in the rheological characteristic. Acronal® PLUS 7865 displays very high response to associative thickeners. These thickeners may be combined with hydroxyethyl cellulose or modified cellulose thickeners in order to reduce any tendency of sagging and to prevent pigment flocculation, although cellulose based thickeners may reduce the stain and wash resistance of the paint.

Like all dispersions Acronal PLUS 7865 tends to foam, with the consequence that it generally necessitates the addition of a defoamer like FoamStar® ST2410 in proportions of 0.2 - 1%.

A coalescent is required to ensure satisfactory film formation. Water miscible glycol ethers are particularly suitable for this purpose. Examples of other suitable coalescent are Texanol® (Eastman Chemical Company), Solvenon® DpNB (BASF) and Loxanol® CA 5308 (BASF) . Generally 4% wet on wet dispersion is required to ensure the film coalesces at 5 °C. As with all polymer dispersions care should be taken when adding solvents so as to not cause coagulation. If a low odor or low VOC paint is to be formulated then care should also be taken in the selection of the coalescent solvent.

Propylene glycol is suitable for increasing the wet edge time but temporarily impairs the resistance to blocking and increases the sensitivity to water.
Preservatives should be added to products made up from Acronal PLUS 7865 ap, in order to ensure adequate protection against microbial attack during long storage periods. Their compatibility and effectiveness however should be tested also.

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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 PLUS 7865** 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 PLUS 7865 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 vapor. Exposure to frost or sources of intense heat must be avoided.

Acronal PLUS 7865 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 PLUS 7865 has a shelf life of approximately nine months from date of manufacture at temperatures between 10°C to 30°C.

Contact Us

BASF East Asia Regional Headquarters Ltd
Dispersions & Pigments Asia Pacific
45th 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
www.dispersions.asiapacific.basf.com