

Product Information

Acronal® 7092

Polymer dispersion for exterior & premium interior paints

Acronal® 7092 is developed for multipurpose application such as premium exterior & interior paints. The fine particle size with narrow particle distribution of the polymer ensures good adhesion. The cross linking gives best of the mechanical properties without compromising on dirt pick up resistance. It is free from plasticisers and solvents.

Chemical Nature:

Polymer dispersion of acrylic esters

Benefits

- High sheen in Low PVC paints
- Excellent scrub resistance
- Very good storage stability
- Excellent water & Efflorescence resistance

Features

- APEO & Formaldehyde free
- Very good film clarity
- Good balance between hardness and flexibility
- Fine particle sizes
- Self cross-linking

Properties

Product specification*	Solids content	%	50 ± 1
	pH value	pH	7.0 – 8.5
	Viscosity at 23 °C, RV DV 2/100	mPa s	20 – 300
Other properties of dispersions	Minimum film-forming temperature (ISO 2115)	°C	20 – 22
	Density (ISO 2811-1)	g/cm ³	approx. 1.04
	Resistance to frost	°C	≤ 0
	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.

Applications

Areas of application

The main field of application for Acronal® 7092 is as a binder for Premium exterior & Interior architectural coatings.

Acronal® 7092 can be formulated in gloss to flat paints with varying PVC levels.

Processing

Acronal® 7092 can be made up in the usual manner with a high speed mixer. It has a good compatibility with fillers and pigments.

Dispersants & Wetting agents

Dispex AA 4143 AM or Dispex CX 4320 are recommended for dispersing titanium dioxide. Non Ionic wetting agents such as Dispex Ultra FA 4480 is recommended for better pigment compatibility

Pigments & Fillers

Acronal® 7092 has a high pigment binding capacity & exhibits very good compatibility with a wide variety of pigments. Typical fillers such as chalk, powdered quartz, micro dolomite, kaolin and fine-grained sand may be used.

Thickeners

Acronal® 7092 has excellent thickener response with cellulose ethers, Polyacrylates such as Rheovis® AS 1125, PU thickeners such as Rheovis PU 1251 & PU 3290, or bentonites and polysaccharides.

Coalescent & Defoamers

The coalescent should be incorporated into the pigment paste with dosage of 5 - 10 % of the polymer solids. A commercial defoamer (0.2 – 0.5%) can be used. Suitability and efficiency of the defoamer should be tested.

Preservatives

Although Acronal® 7092 is protected from attack by micro-organisms, It is necessary to add preservatives to the finished products in order to ensure good storage stability & Antifungal/algal activity.

Others

Propylene glycol is suitable for increasing the wet edge time but temporarily impairs the resistance to blocking and increases the sensitivity to water. Tinting and colour can be achieved using standard pigments used in Architectural coatings. In all cases the compatibility with and effects on the performance of the coatings should be thoroughly checked.

Manufacturers must perform their own careful tests in developing products containing Acronal® 7092, because tests on our part cannot embrace a great variety of factors that may influence results during manufacture and application, e. g. the mutual compatibility of the ingredients, the mixing mechanisms, and the adhesion to various substrates. Testing should include storage at ca. 50 °C in order to ensure that the viscosity remains stable at this temperature.

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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.

Labeling

According to all the data at our disposal, Acronal® 7092 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® 7092 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. The product should not be exposed to direct sunlight for long periods of time.

Acronal® 7092 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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