



Product Information

Acronal® 7046

New Pure Acrylic Dispersion for Clear Topcoat

Acronal® 7046 is a medium-viscosity polymer emulsion with ultra-fine particle size design for clear topcoat . Acronal® 7046 is dried to form a transparent and high-gloss coating film, which is tough and has excellent stain resistance and anti-blocking properties; high water resistance, light resistance, weather resistance, and excellent saponification resistance. Even if it is soaked in water for a long time, the coating film is not easy to whiten. At the same time, it has excellent impermeability, which protects the building's long-lasting beauty.

Chemical Nature:

Aqueous dispersion of a copolymer of acrylic and methacrylic acid esters

Benefits

- Designed for clear topcoat
- Excellent protection performance.
- Excellent exterior durability
- Outstanding blushing resistanceresistance.
- Tough, flexible and tack-free

Features

- Water permeability resistance
- Very good water whitening resistance
- Good dirt pickup resistance
- Very good weatherability
- Resistant to saponification
- APEO-free

Properties

Product specification*	Solid content	%	35 ± 2
	pH value	pH	6.0 – 8.0
	Viscosity at 23 °C, RVT Sp5/20rpm (DIN EN ISO 2555)	mPa s	20 – 2000
Other properties of dispersions	Minimum film-forming temperature (ISO 2115)	°C	approx. 10
	Density (ISO 2811-1)	g/cm³	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.

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

Acronal®7046 is mainly used as a binder for matt clear topcoat with excellent blushing resistance.

Processing

When using Acronal® 7046 to formulate matte powder-containing overcoat varnish or pigment and filler color paint, it is recommended to add sufficient dispersant such as Dispex® CX4320 to pre-disperse matte powder or pigments and fillers in alkaline medium before adding the emulsion. Only when very high viscosity products are mixed in a low-speed mixer, Acronal® 7046 can be added together with wetting and dispersing agents to participate in the dispersion.

Acronal® 7046 has excellent compatibility with matte powders, pigments, fillers and colored sand.

A variety of thickeners can be added to emulsion coatings to adjust their viscosity and workability.

Polyacrylic and polyurethane thickeners (such as Rheovis® HS1152, Rheovis® PU1291) and inorganic thickeners can be used. The thickener is selected according to the free-flowing or thixotropy of the coating. (Polyurethane thickeners have excellent impermeability when used in combination.)

In order to make the polymer form a uniform film at lower than ambient temperature, it is necessary to add a solvent, such as Loxanol® CA5330 or CA5308. Under normal circumstances, the desired effect can be achieved by adding about 2% of the solvent to the emulsion. Short-chain alcohols and glycols can promote the freeze-thaw resistance of coatings, but they cannot be used to lower the film-forming temperature. If possible, the solvent should not be added directly to the polymer emulsion, But should be mixed with the slurry before adding it.

Like all fine particle size polymer emulsions, Acronal® 7046 also has a tendency to foam. Therefore, it is necessary to add 0.3 – 1% of commercial defoamers, such as Foamstar® ST2410 or Foamstar® ED2522. Please test in advance to test the effectiveness of the defoamer.

Acronal® 7046 itself has antibacterial properties in the state it is supplied, but if the formulated product of Acronal® 7046 needs to be stored for a long time, preservatives must be added to ensure that it will not be attacked by microorganisms. Please test in advance to test the compatibility and efficacy of the preservative.

When developing and producing products based on Acronal® 7046, customers must conduct their own tests. Because the compatibility of Acronal® 7046 with other materials in the formulation, the mixing process, and the adhesion requirements on different bases and other factors have too many influences, we cannot record them in the test. At the same time, the experiment should also include testing the viscosity stability at 50°C.

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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® 7046 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® 7046 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® 7046 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 micro-organisms from occurring during storage and processing.

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