Product Information
Acronal® 7043 M

Developmental Polymer dispersion for primer and sealer coatings

Acronal® 7043 M is an anionic Rheology Controlled polymer dispersion for water based primers particularly for chalky substrates. It consists of small, finely divided particles. It's penetrating binder power is excellent as it is adhesion and alkali resistance. Unpigmented films of Acronal® 7043 M are tack-free at room temperature. Films formed by Acronal® 7043 M are clear, flexible and glossy, they have extremely high water resistance.

Chemical Nature:
RC Polymer dispersion of an acrylic ester and styrene

Benefits
- Excellent binding power of chalky substrates
- Excellent adhesion, alkali and water resistances

Features
- Very low foaming
- Balanced polymer hardness
- High shear stability
- Excellent substrate penetration and topcoat adhesion promotion

Properties

Product specification*	Solid content	%	46 ± 1
	pH value	pH	7.9 – 8.6
	Viscosity at 23 °C, (DIN EN ISO 2555)	mPa s	300 – 700
Other properties of dispersions	Minimum film-forming temperature (ISO 2115)	°C	approx. 20
	Density (ISO 2811-1)	g/cm^3	approx. 1.02
	Resistance to frost	ºC	≤ 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.

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Applications

Areas of application

General purpose binder, mainly used for the following applications:

Primers and sealers for mineral substrates

Processing

It is advisable to disperse the pigments and extenders with wetting and dispersing agents such as Dispex® AA 4040 and water-soluble polyphosphates in an alkaline medium in advance before the polymer dispersion is added. It is only when products with very high viscosity are being mixed in low-speed mixers that Acronal® 7043 M should be added together with the wetting and dispersing agents.

Acronal® 7043 M has high pigment binding power, and very good compatibility with pigments and fillers.

Various thickeners can be added to emulsion paints in order to adjust their viscosity and workability. Cellulose ethers, polyacrylates, diurethane thickeners (such as Rheovis® AS 1125 and Rheovis® PU 1280) and bentonite can be used. The choice of thickener depends on whether the coating is expected to be free-flowing or more thixotropic.

Solvents need to be added in order to enable the polymer to form a uniform film at temperatures below ambient temperature. 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® 7043 M has a tendency to foam. It is therefore necessary to add a commercial defoamer at the level of 0.3 – 1 %. Trials should be carried out to test the effectiveness of the defoamer.

Although Acronal® 7043 M itself is resistant to microorganisms in the form in which it is supplied, preservatives need to be added to products formulated with Acronal® 7043 M 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® 7043 M. The compatibility of Acronal® 7043 M 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.

Labeling
According to all the data at our disposal, Acronal® 7043 M 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® 7043 M must not come with metals or alloys that are susceptible to corrosion. During storage it is particularly important to ensure that containers are closed tightly; in storage tanks the air must always be saturated with water vapor. Undue heating must be avoided, as much exposure to frost.

Given adequate tank and storage hygiene Acronal® 7043 M can be kept for about nine months at 10-30ºC.

To prevent problems with microorganisms we recommend post-stabilizing the product with biocides for storage.

Contact Us

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