# Product Information

BASF
The Chemical Company

## Acronal® 7096

### Chemical Nature:

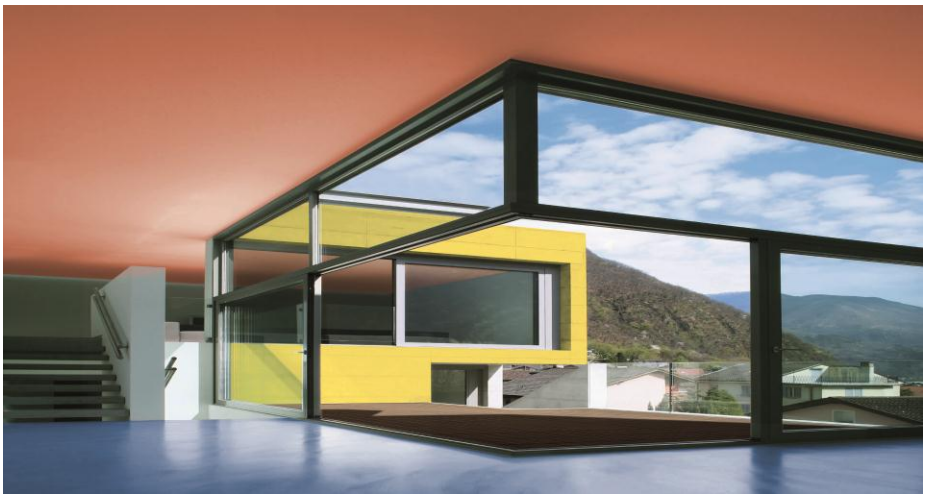
Multi-purpose fine particle sized, APEO free emulsion polymer of styrene and acrylic ester for all kind of paints like distempers and putty with low viscosity

### Benefits

- Excellent scrub resistance even at very high PVC
- Low viscosity for easy processability
- Versatile application
- Excellent cost-in use

### Features

- Excellent binding power with special crosslinkers
- Suitable for all types of paints
- APEO Free
- Fine particle size



## Polymer dispersion for Multi-Purpose Paints, Putty and Distempers.

Acronal® 7096 is an anionic emulsion polymer with flow viscosity. It consists of small finely divided particles. Its compatibility with pigments and extenders is excellent, and it has very high binding power for pigments, fillers and extenders making it highly suitable for all kinds of architectural paints. Acronal® 7096 is versatile and extremely easy to use non film forming binder

| Properties | | | |
|---|---|---|---|
| Product specification* | Solids content | % | 46 ± 1 |
| | pH value | | 7.5 – 9.0 |
| | Viscosity at 23 °C, shear rate 100$s^{-1}$ (Brookfield RVT 2/100) | cps | 50 - 500 |
| Other properties of dispersions | Minimum film-forming temperature (ISO 2115) | °C | 27 |
| | Type of emulsion | | 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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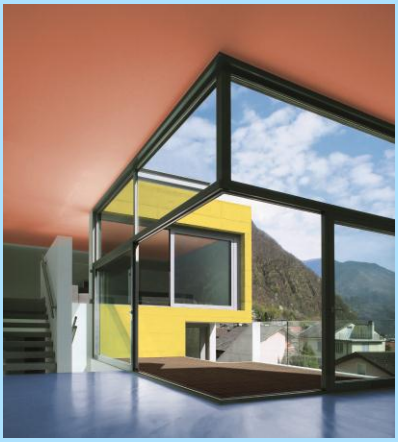


## Application

**Areas of application**
Acronal® 7096 is a multi-purpose binder for both interior and exterior paints. It shows excellent binding hence performs well at high PVC paints.

**Processing**
**Dispersants:**
It is advisable to disperse pigments and extenders with wetting and dispersing agents such as Dispex® AA 4141 or Dispex® AA 4040 and water soluble polyphosphates in alkaline medium in advance before the emulsion polymer is added. It is only when products with very high viscosity are being mixed in low speed mixtures that Acronal® 7096 should be added together with wetting and dispersing agents. Acronal® 7096 has high pigment binding power and very good compatibility with pigments and fillers.

**Thickeners:**
Various thickeners can be added to emulsion paints in order to adjust their viscosity and workability. Cellulose ethers, polyacrylate thickeners like Rheovis® AS 1125 or PU thickeners like Rheovis® PU series and bentonite can be used. The choice of thickeners depends on whether the coating is expected to be free-flowing or more thixotropic or application dependent.

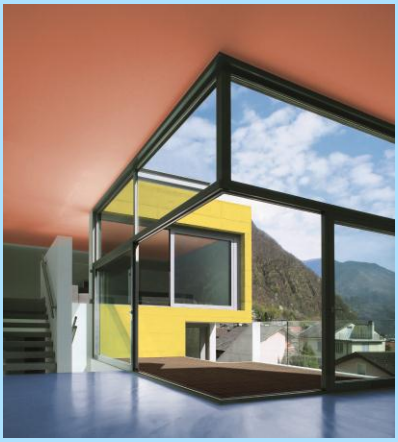
**Solvents:**
Short chain alcohols and glycols improve freeze thaw resistance of paints, but they cannot be used to lower the film forming temperature. If possible solvents should not be added to the emulsion polymer, they should be mixed with the pigment paste and then added.

**Defoamers:**
Like all finely divided emulsion polymers, Acronal® 7096 has a tendency to foam. It is therefore, necessary to add a commercial defoamer like Foamaster® MO NXZ or Foamaster® MO 2150 at levels of 0.1 to 0.3%. Trials should be carried out to test the effectiveness of the defoamer.

**Preservatives:**
Although Acronal® 7096 itself is resistant to microorganisms in the form in which it is supplied, preservatives need to be added to products formulated with Acronal® 7096 to protect them from attack by microorganisms over a 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® 7096. The compatibility of Acronal® 7096 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 conform that its viscosity remains stable.

# Acronal® 7096



## 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® 7096 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® 7096 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® 7096 can be kept for about 6 months at 10-30ºC.

Acronal® 7096 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”). To prevent problems with microorganisms we recommend post-stabilizing the product with biocides for storage.

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