

# Acronal® HS 301

## Polymer Dispersions for Architectural Coatings

**Product description** Acronal® HS 301 is a low viscosity fine particle polymer dispersion. The slightly cloudy film formed from this dispersion stands out for its high elasticity and permanent elongation capacity. This quality remains practically constant over a wide range of temperatures.

**Chemical nature** Aqueous dispersion of a copolymer based on esters of acrylic acid and styrene.

### Key benefits

Very good water resistance.

Attractive properties of resistance to saponification.

Good fastness properties in applications intended for exposure to the elements.

Very low level of fouling in finishes exposed to the elements.

Ability to be used as an additive to increase the flexibility / elongation of a finish.

## Properties

**Physical form** Liquid dispersion.

### Technical data

(no supply specification)

Solids Content	50%
pH Value	8.0 – 9.0
MFFT	< 1 °C
Viscosity at 23 °C, 100 1/s, Sp2	200 – 800 mPa·s
Specific Gravity (Wet polymer)	~ 1.08 g/cm <sup>3</sup>

---

## Application

Acronal® HS 301 it's used for the manufacture of elastomeric finish coatings such as; elastic systems for covering cracks in the restoration of facades, waterproofed roofs, flexible putties and flexible textured finishes.

The manufacture of coating "masses" is generally carried out in mixers for fillings, first dispersing the pigments and fillers in the presence of sufficient amounts of dispersing and wetting agents. Acronal® HS 301 has very good wettability on fillers and pigments, being able to reduce the amount of dispersing agent used with conventional polymer dispersions by increasing the solids content and controlling the viscosity from the beginning.

To cooperate with the dispersion of inorganic fillers, dispersing agents such as; Dispex® 4140 or Dispex® CX 4345. Regarding foam control, it can be considered to include in formulation a; Foamaster® 2159, FoamStar® ST 2140, FoamStar® ED 2522. Regarding the attributes of the formulation, it is possible to think of including attapulguite thickeners such as; Attagel® 40 or, Attagel® 50 type, acrylic type like Rheovis® 1303, Rheovis® 1212, Rheovis® HS 1152 or urethane type like; Rheovis® PU 1331, Rheovis® PU 1216.

---

## Storage

Acronal® HS 301, 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® HS 301, has a shelf life of six months from manufacturing date at 10°C – 30°C, provided it is stored in accordance with the "Handling and Storage of polymers" brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request.

We would recommend treating this product with a biocide to prevent problems with microorganisms from occurring during storage and processing. Further details are given in our leaflet on "The handling and storage of polymer dispersions".



## Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

## Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

® = Registered trademark

™ = Trademark of the BASF Group, unless otherwise noted

BASF Chile S.A.  
Dispersions & Resins  
Santiago – Chile