

Acronal[®] HA 725

Polymer Dispersions for Architectural Coatings

Product description

It is used as a binder for paints, especially for high gloss and satin acrylic enamels. Due to its self-crosslinking characteristic, it results in excellent resistance to "blocking" in the enamels made with it. The paints adhesion made with Acronal[®] HA 725 on various substrates, such as fully hardened aged alkyd paints, it is very good even under the action of water.

Chemical nature

Aqueous dispersion of acrylic copolymers.

Key benefits

Good resistance for outdoor usage.

Excellent gloss development.

Very good adhesion on complex substrates to paint with conventional products.

Suitable to be used on wood as a varnish, lacquer or impregnator.

Properties

Physical form

Liquid dispersion.

Technical data

(no supply specification)

Solids Content	48%
pH Value	8.0 – 9.0
MFFT	~ 20 °C
Viscosity at 23 °C, 100 1/s, Sp2	200 – 600 mPa·s
Specific Gravity (Wet polymer)	~ 1.02 g/cm ³

Application

Products formulated with Acronal® HA 725 can be made in the usual way by means of a quick stirrer or "dissolve". Dispersing additives such as; Dispex® AA 4140 or Dispex® CX 4345 are recommended to disperse Titanium Dioxide pigments in propylene glycol or propylene glycol / water and then include in high gloss paints. If there are larger amounts of water in the formulation, sodium polyphosphate can also be included in the dispersing phase. Associative thickeners such as Rheovis® HS 1303, are particularly suitable for adjusting flow and viscosity. If necessary, these thickeners can be combined with cellulosic thickeners to reduce the tendency to run or to prevent flocculation of pigments. In common with other small particle size dispersions, Acronal® HA 725 tends to foam and therefore generally requires the addition of an antifoam. For example, the use of FoamStar® ED 2522 added in proportions of 0.2 to 0.5% is recommended, but its effectiveness must be previously tested. To ensure satisfactory film formation, the addition of a coalescing agent such as Loxanol® HA 5310 is required. Incorporation of water-miscible glycol ethers are particularly suitable for this purpose in paints containing urethane thickeners such as Rheovis® PU 1216, because they not only decrease temperature of film formation, but also have a beneficial role on flowability. Examples of other coalescers are mineral spirits containing aromatics, butoxy ethanol acetate and Loxanol® CA 5308. High boiling point solvents should not be used, except those previously selected and in use rates lower than 1%, because they are retained in the paint. for a longer time, in such a way that they temporarily deteriorate their quality of resistance to "blocking". In the development of products based on Acronal® HA 725 requires the realization of own and careful tests. The reason for this is that the manufacture and application of these products will be influenced by many factors that, in their totality, we cannot take into account in our tests. Among those tests to be carried out by the user of the Acronal® HA 725 is the control of the viscosity of the finished products by storing them at a temperature of approx. 50 ° C.

Storage

Acronal® HA 725, 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® HA 725, 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