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Acronal® ECO 1583

Polymer Dispersions for Architectural Coatings

Product description Acrylic copolymer dispersion with renewed technology offering low environmental impact and at the same time attractive technical benefits for the coating formulators.

Chemical nature Aqueous dispersion of a styrene acrylic copolymer

Key benefits

- Acronal® ECO 1583, offers broad formulation latitude for many architectural coatings.
- Chance to obtain interior and exterior end use coatings.
- Product with low VOC and odor levels.
- High pigment load capabilities.
- Ammonia- free, APEO-free product.
- Low dirt-pick up coatings formulations feasibility.
- Binder with high alkaline resistance and adhesion.
- Easy handling, transporting and shorter manufacturing process.

Properties

Physical form Liquid dispersion.

Technical data
(no supply specification)

Solids Content	50%
pH Value	7.0 – 8.5
MFFT	~ 14 °C
Viscosity at 23 °C, 100 1/s, Sp2	50 – 300 mPa·s
Specific Gravity (Wet polymer)	~ 1.04 g/cm³

Application

Acronal® ECO 1583 owns several attractive advantages to be used on a wide range of interior and exterior architectural coatings formulations. Coatings with higher PVC could be obtained bringing matt finishes and the chance to formulate with lower PVC to obtain semigloss to glossy finishes. Multipurpose binder with attractive adhesion and high hiding power. Low dirt-pick up capabilities, higher wet scrub resistance compared with commercial classical products. For interior coating offer high pigment binding properties helping pigment and filler dispersion stability. Compatible with coating formulations containing silicate.
Product is completely compatible with our opacifying polymer AQACEll® HIDE 6299, bringing cost reduction due lower TiO_2 consumption. Textures, putties and pastes are also feasible products to be obtained. For correct wetting of pigments, fillers and substrates we offer a full range of water-based additives under the brand name Hydropalat®.
Acronal® ECO 1583 is highly compatible with diverse thickeners technologies like acrylics where we offer Rheovis® AS or Rheovis® HS ranges, HEUR type like our Rheovis® PU range or even polyether type like our Rheovis® PE types. Previous given rheology could be supported by using one of our Attagel® inorganic thickeners.
For the correct foam control on your water-based formulations you can choose the right ingredient inside our Foamaster® or FoamStar® defoamer ranges. Each one of them owns different type of active substances and composition giving benefits to your final product.
For film forming you have several options inside our Loxanol® additive range like; coalescents, plasticizers, hydrophobes and miscellaneous ingredients for the right film dried structure.
Looking for the correct pigments and filler dispersion you can select an ingredient from our several alternatives inside our ranges Dispex® & Dispex® Ultra ranges.

Storage

Acronal® ECO 1583, 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® ECO 1583, 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”.

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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.

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