

Acronal[®] MB 5036

Polymer Dispersions for Construction

Product description Acronal[®] MB 5036 is an innovative dispersion used to manufacture silanized acrylic sealants providing excellent adhesion to a broad variety of surfaces including glass and ceramics.

Chemical nature Acronal[®] MB 5036 is the Biomass Balance version of Acronal[®] 5036. It is an aqueous dispersion of acrylic acid ester copolymer which is produced without the addition of APEO, ammonia or formaldehyde. Acronal[®] MB 5036 contains renewable raw materials.

Properties

Physical form Liquid, aqueous dispersion

Technical data

(not supply specification)

Solid content	DIN EN ISO 3251	~ 60 %
pH value	DIN ISO 976	6.0 – 7.5
Viscosity; dynamic	DIN EN ISO 3219 (23 °C, 250 1/s)	100 – 600 mPa.s
Glass trans. temperature	DIN EN ISO 11357	~ -30°C

Application

Areas of application

Acronal® MB 5036 is used as a silanized binder to produce high-performance and highly elastic joint sealants.

Acrylic sealants produced with Acronal® MB 5036 have good low-temperatures flexibility as well as high resilience. They also have excellent adhesion to all common building materials, including ceramics and glass.

Through the biomass balance process, Acronal® MB 5036 has a significantly lower carbon footprint than Acronal® 5036 (considered from cradle to gate).

In the production of Acronal® 5036, in addition to other acrylic monomers, a ¹⁴C bio-acrylic monomer is used, which is produced exclusively using bio-alcohol as the alcohol source and acrylic acid (petrochemically based). This results in a biogenic ¹⁴C carbon content in the polymer of 15% (w/w).

The bio-alcohol used is 100 % derived from vegetable-based material. Raw materials derived from palm oil or palm kernel oil are excluded from the product. The plant material used is not known to be genetically modified, which is why the product is considered non-GMO.

In case a customers' formulation should be assessed on its environmental impact BASF is able to support by providing Acronal® MB 5036 related environmental data on demand. Please ask your technical or sales representative.

Processing

To ensure optimum filler compatibility, the dispersion should be adjusted to pH 8 by adding 10 % sodium hydroxide solution and additionally stabilized with pigment dispersants (e.g. Dispex® AA 4135 or Dispex® CX 4231).

To ensure sufficient storage stability, the use of emulsifiers such as 0.5 % Disponil® SDS 15 has proven effective. Depending on the desired application, the final viscosity is adjusted by means of suitable thickeners. Rheovis® HS 1169 or Rheovis® HS 1180 show good effects here.

If no suitable mixing plant with vacuum equipment is available, commercially available defoamers (e.g. FoamStar® PB 2706) can be used. In general, an addition of 0.05 – 0.5 % defoamer, based on the batch, is sufficient. The required addition quantity must be determined in tests.

The suitability of all additives mentioned above must be clarified by own tests.

Storage

Although Acronal® MB 5036 is protected against infestation by microorganisms, preservatives should be added to sealants made from it to protect them from infestation even during longer storage periods and thus ensure consistent quality.

Compatibility and effectiveness are to be determined by own preliminary tests.

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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BASF SE

Dispersions Europe

67056 Ludwigshafen, Germany

www.basf.com/dispersions