

Acronal[®] 5212 (NE)

Polymer Dispersions for Construction

Product description Acronal[®] 5212 (NE) is used as a binder component in the production of expandable sealing tapes with defined expansion behavior and high surface tack.

Chemical nature Aqueous dispersion of an acrylic ester copolymer containing carboxyl groups, produced without using APEO or formaldehyde.

Properties

Physical form Liquid, aqueous polymer dispersion

Technical data

(not supply specification)

Solids content	DIN EN ISO 3251	68.0 – 70.0 %
pH value	DIN ISO 976	3.5 – 6.0
Viscosity, dynamic	DIN EN ISO 3219 (23 °C, 100 1/s)	300 - 600 mPa.s
Glass transition temperature (T _g)	DIN EN ISO 11357	~ -40 °C
MFFT	DIN ISO 2115	< 1°C
Initial melting point ¹		≤ 20 °C

¹ According to Commission Regulation (EU) 2023/2055 of 25 September 2023 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards synthetic polymer microparticles.

The initial melting point was determined according to the position paper of the European Polymer Dispersion and Latex Association (EPDLA's position paper on polymer dispersions, redispersible polymer powders made thereof and synthetic polymer microparticles) from December 2024 and the method described therein.

Application

Areas of application

Due to its balanced cohesion/adhesion profile, Acronal® 5212 (NE) is suitable for mixing with other dispersions (e.g. Acronal® A 107) for the formulation of impregnations for expandable joint sealing tapes and other impregnated PU-foam articles. The adhesive character enables high surface adhesion to the substrates to be sealed and the good water resistance supports properties such as driving rain resistance and water vapor tightness of the impregnated PU foams.

Processing

When mixing Acronal® 5212 (NE) with other dispersions, pH values should be in the weakly alkaline range. It should be noted that when increasing the pH, a viscosity increase occurs. The mechanical stability and a possible tendency of fillers to settle in the impregnation mixture can be improved by adding small amounts of suitable thickeners. To achieve a homogeneous distribution of the fillers and pigments, the addition of dispersing aids such as Dispex® AA 4135 has shown good effects.

In the case of wetting difficulties, the addition of about 0.5% of a wetting agent (e.g. Lumiten® I-SC) often helps. Commercially available defoamers (e.g. FoamStar® SI 2210) can be used to suppress any foaming. In general, it is sufficient to add 0.2 – 0.5% defoamer in relation to the mixture. The required amount must be determined in tests.

The hydrophobic properties of impregnated joint sealing tapes can be further supported by the addition of, for example, Loxanol® MI 6840, a highly concentrated paraffin wax emulsion.

If the formulation is to be evaluated in terms of its environmental impact, BASF can provide support by providing environmental data related to Acronal® 5212 (NE). Please ask your technical service manager or sales representative.

Storage

Although Acronal® 5212 (NE) is protected against infestation by microorganisms, preservatives should be added to the construction adhesives made from it to protect them from infestation even during prolonged storage periods and thus ensure consistent quality. The influence of the biocidal equipment on the labelling of the final product must be considered in the case of liquid preparations. Tolerability and efficacy 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