

# Acronal® 5442

## Polymer Dispersions for Construction

**Chemical nature** Aqueous, self- crosslinking dispersion of a copolymer of acrylic ester and styrene.  
Acronal® 5442 is manufactured without APEO, ammonia or plasticizers.

### Properties

**Physical form** Liquid, dispersion

<b>Technical data</b> (not supply specification)	Solid content	DIN EN ISO 3251	52.5 – 54.5 %
	pH value	DIN ISO 976	5.5 – 8.5
	Viscosity, dynamic	DIN EN ISO 3219 (100 1/s, 23 °C)	10 – 100 mPa.s
	Glass transition temperature (Tg)		~ -15 °C
	MFFT	DIN ISO 2115	< 1 °C
	Initial melting point <sup>1</sup>		≤ 20 °C

<sup>1</sup> 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.

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## Application

### Areas of application

Acronal® 5442 is mainly used to manufacture cement-based, flexible waterproofing membranes being applied in- and outdoor beneath tiles as well as for surface protection e.g. basements.

The polymer film only crosslinks in the alkaline pH range and provides excellent crack-bridging properties even down to -20°C and very good adhesion in combination with tiles and slabs.

### Processing

No unpleasant ammonia odor is generated when Acronal® 5442 is processed in combination with strongly alkaline mineral binders such as cement and lime, etc.

We would recommend adding either Rheovis® HS 1169 to the wet component of the mixture or Rheovis® HS 1980 to the dry component as rheology additives to obtain the correct consistency for processing.

### 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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