

Acronal[®] 5400 E

Polymer Dispersions for Construction

Chemical nature Aqueous dispersion of acrylic acid ester and styrene. Acronal[®] 5400 E is manufactured without APEO, ammonia and plasticizer.

Properties

Physical form Liquid, dispersion

Technical data (not supply specification)	Type of dispersion		anionic
	Solids content	DIN EN ISO 3251	~ 57 %
	pH value	DIN ISO 976	5.5 – 7.5
	Viscosity	DIN EN ISO 3219 (250 1/s, 23 °C)	50 – 350 mPa·s
	Glass transition temperature (T _g)		~ -8 °C

Application

Areas of application

Acronal® 5400 E is mainly used to manufacture cement-based, flexible waterproofing membranes being applied in- and outdoor beneath tiles with good crack-bridging properties.

Other areas of application include for example:

- High-flexibility tile adhesives
- Flexible waterproofing slurries for sealing in conjunction with tiles and protective surface coatings
- Protection against corrosion
- Basecoats
- Additive for hydraulic binder systems
- Roof coverings

Processing

It is usually not necessary to add any plasticizer, because Acronal® 5400 E already has low film-forming and glass transition temperatures. If the air voids content increases during processing of Acronal® 5400 E, we suggest defoaming tests with, for example, 0.3 – 1.0 % FoamStar® PB 2706 in relation to the wet component.

To ensure the crack-bridging properties of mineral waterproofing slurries, the polymer/cement ratio should be at least 0.9. If a sag-resistant consistency is required for the processing rheology of the slurry, we recommend the use of polyurethane-based thickeners like, for example, Rheovis® PU 1216.

To speed up hydraulic formulations with a high proportion of polymer, it may be beneficial to add aluminous cement or calcium formate to the dry component.

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
Regional Business Unit
Dispersions & Resins Europe
67056 Ludwigshafen, Germany

www.basf.com/dispersions