

Acronal[®] V 275 na

Chemical Nature

Aqueous acrylate-vinyl acetate copolymer dispersion used for the manufacture of flooring adhesives and sealants

Properties

Typical Properties

Solids content	%	~ 65.0
pH		~ 4.5
Viscosity at 23 °C (Brookfield RV, Spindle#2, at 50 rpm)	mPa s	~ 150 – 600

Other properties of the dispersion

Density	g/cm ³	ca. 1.05
Film-forming temperature	°C	<1 min.
Dispersion type		anionic
Plasticizer content		free from plasticizer
Sensitivity to frost	°C	below 0
Miscibility with water		good
Resistance to solvents		good

Properties of the film

Density	g/cm ³	ca. 1.08
Glass transition temperature T _g (DSC)	°C	ca. -30
Water absorption (After 24 hr immersion in water)	%	ca. 20
Mechanical strength*		
Tensile strength	psi	ca. 65
Elongation at break	%	ca. 1750
Appearance		transparent, slight yellow
Surface		tacky
Flexibility		very flexible
Resistance to aging		good

Compatible with

Polymer dispersions
Thickening agents
Plasticizers
Solvents
Resins

Most nonionic and anionic dispersions
Collacral[®] VL, Latekoll[®] D, cellulosic derivatives, fumed-silica
Plastilit[®] 3060
Limited compatibility with esters and aliphatic and aromatic hydrocarbons
Resins are usually added in solution form. The following can be used: natural resins, modified natural resins, coumarone-indene resins, terpene phenolic resins, and hydrocarbon resins. The product is also compatible with resin melts.
Clay, calcium carbonate, silica flour, microdolomite, fine sand

Fillers

* The above values should not be taken as specification.

Application

Fields of application

Acronal V 275 na is intended for the manufacture of water-based flooring adhesives for laying PVC floor coverings and carpets with many different backings. Such adhesives show high tack, good quick grab, heat stability, good plasticizer migration resistance, and excellent filler acceptance.

Acronal V 275 na can also be used for the production of dispersion-based sealants. Sealants based on Acronal V 275 na show high elastic recovery and good low-temperature flexibility.

Processing

Acronal V 275 na is processed together with fillers in usual mixers. Vacuum planetary mixers have proven suitable for producing sealants. In order to gain the optimal filler acceptance, the dispersion should be raised to a pH of 8 by means of a 10% sodium hydroxide solution and stabilized by means of Pigment Disperser N or similar material. Acronal V 275 na exhibits self-thickening when neutralized to pH levels above approximately 7.5, resulting in potential thickener cost savings.

Conventional defoamers (e.g., Lumiten® EL) can be used for inhibiting foam formation. It is usually sufficient to add 0.05 - 0.2% of defoamer, calculated on the sealant or adhesive mix.

Adhesives and sealants based on Acronal V 275 na should be blended with a preservative in order to protect them against the attack of microorganisms. The suitability of the preservative must be determined by trials and controlled at regular intervals.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal V 275 na.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

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