

Acronal[®] S 504 na

A versatile dispersion used as the base polymer for paper strengthening via saturation, and also finds utility as a binder in sound damping and adhesives applications

Chemical nature Acrylic dispersion containing styrene and acrylonitrile

	Properties		
Typical Properties	Solids content	%	~ 50.0
	pH value		~ 7.5
	Viscosity at 23 °C (Brookfield RV, Spindle #2, at 20 rpm)	cps	350 – 950
Further properties of the dispersion	Density	g/cm ³	approx. 1.04
	Freeze/thaw resistance		not resistant to freezing
Properties of the film	Dispersion type		anionic
	Glass transition temperature T _g (DSC)	°C	ca. 4
	Appearance		clear, transparent
	Flexible Surface		yes tack-free

Compatible with

<i>General</i>	Acronal S 504 na is compatible with a wide range of materials, including those commonly used in coating colors
<i>Polymer dispersions</i>	Anionic dispersions and those containing a protective colloid
<i>Thickeners</i>	Rheovis PU thickeners, Rheovis AS 1125, Rheovis 1152
<i>Pigments</i>	Adhesives can be colored with the water-dispersible Aurasperse [®] , Dispers [®] or Luconyl [®] preparations.

Application

Features Acronal S 504 na is used in a wide variety of applications as it is flexible, yet strong. It exhibits good water resistance. It has utility in paper saturation, print coating, sound damping and other applications where high filler acceptance is needed. It also exhibits strong adhesion to metal, paint, and wood.

Processing When Acronal S 504 na is mixed with other materials, the final mixture should be adjusted to pH > 6, which increases the mechanical stability.

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 S 504 na.

Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

Important

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