

# Acronal® S 504 na

Acronal S 504 na is a versatile dispersion used as the base polymer for paper strengthening via saturation, and also finds utility as a binder in adhesive 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 <sup>3</sup>	approx. 1.04
Freeze/thaw resistance		not resistant to freezing
Dispersion type		anionic

### Properties of the film

Appearance	clear, transparent
Flexible	yes
Surface	tack-free

## Compatible with

### General

Acronal S 504 na is compatible with a wide range of materials, including those commonly used in coating colors

### Polymer dispersions

Anionic dispersions and those containing a protective colloid

### Thickeners

Rheovis® AS 1125

### Pigments

Adhesives can be colored with the water-dispersable 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 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.

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