

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 PropertiesSolids content
% ~ 50.0
pH value ~ 7.5

Viscosity at 23 °C cps ~ 350 – 950

(Brookfield RV, Spindle #2, at 20 rpm)

Further properties of Density g/cm³ approx. 1.04

the dispersion Freeze/thaw resistance not resistant to freezing

Dispersion type anionic

Properties of the film Glass transition temperature °C ca. 4

T_g (DSC)

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.

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Storage

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

Important

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