

# Acronal<sup>®</sup> S 996 S

Acronal S 996 S is an aqueous dispersion of a heat-crosslinking copolymer of butyl acrylate and styrene. It is free of plasticizers and solvents.

## Chemical Nature

Aqueous dispersion of a polymer based on acrylic ester, styrene

## Properties

### Typical Properties

Solid Content	%	~ 46.0
pH		~ 6.0
Viscosity at 23°C (Brookfield RV, Spindle #2, at 20 rpm)	mPa s	~ 30 – 120
Glass transition temperature	°C	46

\*These figures should be taken for comparison purposes only. All that can be obtained from it is an idea of the magnitude concerned.

## Application

### Features

Acronal S 996 S is mainly used to impregnate base papers used in the manufacture of decorative laminate, wallpaper and filters. Properties such as the water resistance, solvent resistance, dimensional stability and flatness, etc., of the impregnated paper can be improved by adding urea-formaldehyde resins.

### Processing

Acronal S 996 S can be applied by all conventional techniques used in the industry, such as size press, film press, curtain coating and dipping, etc. It can be thinned with methanol, and it remains stable when it is mixed with resins. For optimal film formation the product should be dried above the glass transition temperature of 46 °C.

Acronal S 996 S is compatible:

- Very good with the anionic and non-ionic polymer dispersions in our range
- Good with resins like Urecoll<sup>®</sup> and Kaurit<sup>®</sup>
- Good with pigments like Luconyl<sup>®</sup>, Pigmosol<sup>®</sup> and Helizarin<sup>®</sup>
- Good with thickeners like Rheovis<sup>®</sup> AS 1420, Rheovis<sup>®</sup> AS 1125 and cellulose based thickeners

We would recommend testing the stability of formulations that contain Acronal S 996 S in advance before they are processed.

### Crosslinking

After film forming Acronal S 996 S can be thermally crosslinked. The crosslinking temperature should be at least 120 °C whereas higher temperatures accelerate the reaction. Catalysts such as maleic acid, phosphoric acid or ammonium hydrogen phosphate can be used to increase the rate of the crosslinking reaction.

## 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 996 S.

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## Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request.

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