

# Acronal<sup>®</sup> 4377 X

**High Strength binder for coating paper and paperboard.**

**Chemical Nature**

**Aqueous dispersion of a Styrene Acrylic copolymer.**

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**Properties**

**Typical Properties**

Solids content	%	49 - 51
pH		6.5 - 7.5
Viscosity at 23 °C (Brookfield RV, Spindle #2, at 20 rpm)	cps	300 – 800

**Other properties of  
the dispersion**

Type of dispersion		anionic
Density	g/cm <sup>3</sup>	1.04
Freeze/thaw stability		not stable

**Properties of the film**

Appearance		clear
Flexible		yes
Surface		tack-free
Glass transition temperature (DSC)	°C	ca. 11

**Compatible with**

Acronal 4377 X is compatible with other substances commonly used in coating colors.

\* The above figures should not be taken as specification.

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**Applications**

**Features**

Acronal 4377 X is a high strength binder for paper and paperboard coatings, including those used for food packaging.

Acronal 4377 X has outstanding print mottle resistance while yielding coatings which have excellent print gloss and print smoothness. This product demonstrates superior runnability and stability as well as excellent compatibility with fine pigments.

Acronal 4377 X carries superior binding strength over standard polymers. This allows customers to optimize coating recipes to reduce coating costs.  
Acronal 4377 X demonstrates excellent light fastness.

**Processing**

The pH value of pigment slurries should be in the neutral-to-alkaline range before Acronal 4377 X is added.

## 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 4377 X.

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## Storage

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

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