

# Epotal<sup>®</sup> CF 430

Epotal CF 430 is a waterborne coater-ready flexible packaging compostable adhesive, which incorporates a base polymer Epotal ECO 3702. This base polymer dispersion is compostable per EN 13432.

## Chemical nature

Compostable aqueous dispersion of a polyester-polyurethane elastomer.

## Properties

### Typical Properties

Solids content	%	~ 40.0
pH value		~ 8.0
Viscosity at 23 °C (Brookfield RV, Spindle #2, at 20 rpm)	cps	~ 40

### Further properties of the dispersion

Density	g/cm <sup>3</sup>	approx. 1.04
Freeze/thaw resistance		not resistant to freezing
Dispersion type		PUD

### Properties of the film

Glass transition temperature T <sub>g</sub> (DSC)	°C	ca.-46
Appearance		clear, transparent
Flexible		yes
Surface		tacky

### Compatible with

#### General

Epotal CF 430 is compatible with a wide range of materials, including those commonly used in coating colors

#### Polymer dispersions

Polyester-polyurethane dispersion

#### Crosslinker/Additives

Compatible with Basonat LR 9056 (crosslinker), Lumiten I-SC, Drew Plus L-108, Acticide MV

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

## Application

### Features

The adhesive is particularly suited to produce multi-layer films based on a broad variety of compostable films and paper. The laminate has a high initial bond strength enabling direct further converting.

### Processing

It is recommended to apply Epotal CF 430 by reverse gravure coating. For direct gravure coating, the usage of a smoothing bar helps achieving a good coating quality. The smoothing bar should be operated against the web direction.

It is strongly advised to add a water-emulsifiable, polyfunctional isocyanate crosslinker such as Basonat<sup>®</sup> LR 9056 to improve the heat resistance of the adhesive. We recommend a concentration of 3% by weight of Basonat<sup>®</sup> LR 9056 based on wet Epotal CF 430 by weight. The pot-life of the formulated adhesive after addition of the Basonat<sup>®</sup> LR 9056 is approximately 4 hours at room temperature. To achieve a good coating quality, it is recommended to minimize pot-life as much as

possible. If thickeners are added or if Epotal CF 430 is mixed with other products, it is important to make sure that none of the components has a pH of lower than 7 to prevent coagulation. Epotal CF 430 can only be mixed with anionic dispersions or with dispersions that contain a protective colloid.

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## 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 Epotal CF 430.

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## Storage

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

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