

# Waterborne Pressure Sensitive Adhesives

A reliable monomer integrated producer of PSAs

- Assisting your sustainability goals
- Creating added value
- Expanding your market opportunities



# A strong, reliable, integrated producer of waterborne Pressure Sensitive Adhesives

Being monomer integrated and operating worldwide with production facilities and R&D hubs in Europe, Americas and Asia, Arkema's Coating Resins business provides technical support and services wherever you manufacture your self-adhesive products.

This brochure is a European edition. Please contact your Arkema Coating Resins representative to get the American or Asiatic editions.

As illustrated below, through a few examples, we offer you a comprehensive range of pressure sensitive adhesive resins (PSA's) to meet your diversified and most demanding performance requirements.

If your application has special needs that cannot be met through one of our existing products, contact your Arkema representative to discuss joint product development opportunities.

## Keeping pace in your demanding manufacturing environment

We understand your need for the consistent, reliable and repeatable performance required for adhesives applied at high and very high line speeds. We work to fine tune our PSA properties to run on your line, under your application conditions, to meet your production requirements. Through careful wetting and rheology control, our ENCOR® PSAs can be adapted for use in virtually all conventional coating methods, including Meyer bar, air brush, reverse roll, reverse gravure or curtain coating systems.



Semi-permanent grades available



Easy peel options (mono or bi-component) for temporary surface protection films



High adhesion options for permanent applications



No-noise properties for packaging



Blushing resistant grades for use in clear film applications



Removable properties for masking tapes

A white liquid splash, possibly milk or cream, is captured in mid-air, creating a central peak and several concentric ripples on the surface below. The background is a light, neutral color with a subtle gradient.

## Good things happen when chemistry gets personal.

**Innovation. Sustainability. Opportunity. Growth.** Yes, we have expertise, resources, and exceptional products like the ENCOR® pressure sensitive adhesives detailed in this brochure. But you will hear similar claims from our competitors. We believe what sets Arkema apart is understanding – your goals...your applications...you. Open, honest collaboration, listening, and action. These are the things that move practical innovation forward and enable us form a bond with our customers that will stand the test of time.

# COATING RESINS GLOBAL RESOURCES

## China/Asia Pacific/India

Changshu – *production plant*  
Changshu, Jiangsu Province  
PCR

Changshu – *technical center*  
Changshu, Jiangsu Province  
PCR

Guangzhou Technical Service and  
Application Centre  
Science City, Guangzhou, China

Arkema Coatings Malaysia Sdn. Bhd. –  
*general office*  
81700 Pasir Gudang Johor Malaysia

Arkema Coating Resins Malaysia Sdn. Bhd.  
– *production plant*  
PLO 491, Jalan Keluli, Pasir Gudang,  
Johor, Malaysia

Navi Mumbai, India, – *production plant,*  
*technical service*  
Navi Mumbai, Maharashtra 400706, India

## Europe – Middle East – Africa

Verneuil-en-Halatte – *research center*  
60550 Verneuil-en-Halatte, France

ARKEMA GmbH – *production plant*  
Niederlassung Arkema Coating Resins  
Flurstraße  
08056 Zwickau, Germany

ARKEMA S.R.L. – *production plant*  
Boretto Italy

ARKEMA S.R.L. – *technical center*  
Boretto Italy

ARKEMA S.R.L. – *production plant*  
Gissi (CH) Italy

Arkema Coating Resins SAU –  
*production plant*  
Mollet del Vallès (Barcelona), Spain

Arkema Coating Resins SAU –  
*production plant*  
Sant Celoni (Barcelona), Spain

Arkema Coating Resins SAU –  
*technical center*  
Sant Celoni (Barcelona), Spain

Arkema B.V. – *production plant*  
Brummen, The Netherlands

Vislingen – *production plant*  
Ritthem, The Netherlands

## North America

Arkema Coating Resins – *production plant*  
Alsip, IL

Arkema Coating Resins – *production plant*  
Grand Rapids, MI

Arkema Coating Resins – *production plant*  
North Kansas City, MO

Arkema Coating Resins – *production plant*  
Hahnville, LA

Arkema Coating Resins – *production plant*  
Torrance, CA

Arkema Coating Resins – *production plant*  
Mobile, AL

Arkema Coating Resins – *research center*  
Cary, NC

Arkema Coating Resins – *technical center*  
North Kansas City, MO

## South America

Coatex/Arkema Coating Resins –  
São Paulo *production plant*  
Araçariquama, São Paulo, Brazil

Coatex/Arkema Coating Resins –  
*technical center*  
Araçariquama, São Paulo, Brazil

For full contact information, visit [arkemacoatingresins.com](http://arkemacoatingresins.com)

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[arkemacoatingresins.com](http://arkemacoatingresins.com)

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## PERMANENT LABELS – FILMIC AND PAPER

ENCOR® PSA	T <sub>g</sub> °C	Solids %	Brookfield Viscosity mPas	Features and Performance Benefits
<b>High Solids/Low Viscosity Grades</b>				
ENCOR® 4500	-47	68.0	1250	Very high peel adhesion and tack. Good response to tackifiers. Designed for curtain coaters.
ENCOR® 4517B	-41	68.0	800	High tack and cohesion. Good response to tackifiers. Suitable for General Purpose Paper Labels (GPP).
<b>Standard Grade</b>				
ENCOR® 4508	-50	55.0	300	Ready-to-coat. Suitable for General Purpose Filmic Labels (GPF).
<b>Specialty Grades</b>				
ENCOR® E40030	-42	50.0	300	Ready-to-coat. Suitable for paper labels with wash-off properties. Excellent iced water resistance.
ENCOR® E40031	-37	48.0	300	Ready-to-coat. Suitable for filmic labels. Excellent clarity and blush resistance.

Tackified options are available — For curtain or vario-gravure coaters, ready-to-coat tackified formulations have been fine-tuned to fit your production requirements as well as adhesion/cohesion balance. Please contact us for additional information.

## PROTECTIVE FILMS AND REMOVABLE LABELS

ENCOR® PSA	T <sub>g</sub> °C	Solids %	Brookfield Viscosity mPas	Features and Performance Benefits
<b>Bi-component Systems<sup>1</sup></b>				
ENCOR® 4211	-11	50.0	300	Extremely low tack. Excellent peelability without ghosting after crosslinking.
ENCOR® 4509	-43	59.0	500	Good balance of adhesion and cohesion. High SAFT.
ENCOR® 4550	-51	50.0	250	Ultra-low adhesion grade. Outstanding removability from different surfaces after crosslinking.
<b>Mono-component Systems<sup>2</sup></b>				
ENCOR® 4525	-42	50.0	250	Excellent cohesive strength and SAFT. Good anchorage on polyolefin substrates.

<sup>1</sup>Designed for bi-component systems (removable properties after polyisocyanate or polyaziridine crosslinking)

<sup>2</sup>Designed for mono-component systems (no need of further crosslinking to achieve removable properties)

## TAPES

ENCOR® PSA	T <sub>g</sub> °C	Solids %	Brookfield Viscosity mPas	Features and Performance Benefits
<b>Packaging Tapes</b>				
ENCOR® 4135	-43	59.0	200	Ready-to-coat, designed to manufacture high adhesion polypropylene carton sealing and consumer tapes.
ENCOR® E40038	-43	55.0	200	Ready-to-coat, designed to manufacture "no-noise" polypropylene carton sealing and consumer tapes.
<b>Industrial Tapes</b>				
ENCOR® 4103	-45	50.0	250	Acrylic tackifier.
ENCOR® 4514	-41	60.0	17500	Designed for bar coaters. Suitable for splicing tapes.
ENCOR® E40039	-33	65.0	6500	High adhesion and tack. Suitable for transfer tapes.

Tackified and Thickened options are available – For application requiring more aggressive tack, tackified formulations have been developed. Thickened versions are available for applications requiring high coating weight. Please contact us for additional information.

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <http://www.arkema.com/en/products/products-safety/disclaimer/index.html>

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