COSMO SPECIALITY CHEMICALS
Coatings | Adhesives | Masterbatches

Cosmobond™

High-Performance Adhesive Solutions



Premium Adhesive Technologies

For Paper Converting • Foil Lamination
Flexible Packaging • Pressure-Sensitive Labels

Water-Based Side Pasting Adhesives

Grades: Cosmobond™ SPA 201 – Nozzle | SPW 257 – Wheel | SPA 410 HP – Nozzle | SPW 457 HP – Wheel

High-performance side seam and flap-sealing adhesives for carton, corrugated, paper bag and mono-carton production.

Product Features:

- High tack for high-speed folder-gluer operations.
- Strong fibre-tearing bond on paperboard and corrugated substrates.
- Clean machining with reduced stringing and equipment contamination.
- Excellent for wheel, roller, nozzle and manual application systems.
- Formaldehyde- and phthalate-free.
- US FDA 21 CFR 175.105 and ROHS compliance



Dry Lamination Adhesives

Grades: Cosmobond™ FPDL 301 | FPDL 302 | FPDL 350

Advanced laminating adhesives for various film to printed paper board where clarity, bond strength and converting efficiency are critical.

Product Features:

- High peel strength on various films for printed board lamination
- Compatible with film, printed paper, metallized-based substrates
- Clean coating, efficient drying, and high-speed lamination support
- Good gloss and heat resistance
- Excellent machine runnability
- Formaldehyde- and phthalate-free
- US FDA 21 CFR 175.105 and ROHS compliance



Paper/Foil Lamination Adhesive

Grade: Cosmobond™ PFL 450

Premium adhesive for paper, aluminium foil and metallized film laminates used for making high speed pouches of mouth freshener, and ice cream cone etc.

Product Features:

- High bond and shear strength for multi-layer laminates
- Smooth lay-flat lamination with controlled wet tack and open time
- Strong adhesion to paper, kraft, SBS board, foil, and metallized polyester
- Excellent heat resistance in high-speed pouch making process
- Formaldehyde- and phthalate-free
- US FDA 21 CFR 175.105 and ROHS compliance



Pressure Sensitive Adhesive

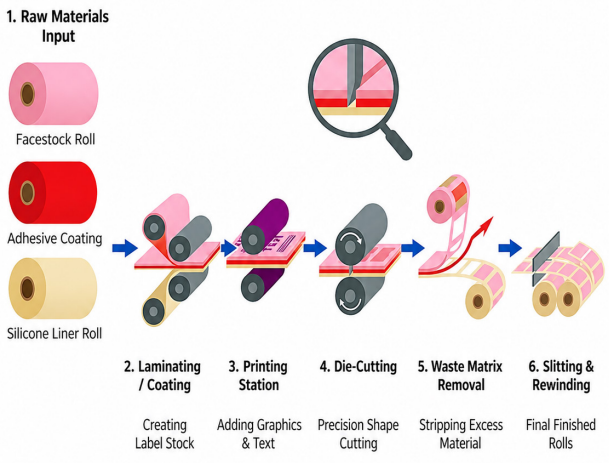
Grade: Cosmobond™ PSA 1200

Acrylic water-based pressure sensitive adhesive for making various general purpose permanent filmic label application.

Product Features:

- High peel strength and shear resistance
- Excellent tack and quick-stick performance at room temperature
- Balanced peel, tack, and shear for reliable label performance
- Excellent for general-purpose labels
- Formaldehyde- and phthalate-free
- US FDA 21 CFR 175.105 and ROHS compliance.

How are Pressure Sensitive Labels Made: Manufacturing Process Flow





MEDIUM PERFORMANCE 2-COMPONENT SOLVENT-FREE PU ADHESIVE

Cosmobond™ SLPU 705A + 605B

Our 2-Component medium performance Solvent-Free Polyurethane Adhesive delivers dependable adhesion, efficient processing, and cost-effective performance for a wide range of flexible packaging and industrial lamination applications.

Compatible Substrates

PET • BOPP • CPP • PE • Paper • Aluminum Foil • Metallized Films • Nylon (PA)

Processing

Designed for use with standard solvent-free lamination equipment, offering smooth application and reliable curing performance.

Request samples, technical data sheets and grade recommendations

Contact your Cosmobond™ adhesive representative for application-specific support.

Product Features:

- Solvent-Free Technology
- Excellent adhesion to metallized films and foils.
- Superior optical clarity for enhanced package appearance.
- Excellent machine runnability
- Suitable for high-speed lamination
- Excellent pot life for better operational convenience
- Suitable for nitrogen-flushed pouches.
- Fully compatible with CI Flexo and NCPU ink systems
- Good resistance to heat, chemicals, and aggressive filling material.



Applications

Cosmobond™ SLPU 705A/605B is an ideal solution for a broad spectrum of FMCG and food packaging applications, including:

- Snack food and confectionery packaging
- Dry food products such as tea, coffee, spices, and bakery items
- Detergent and household care product pouches
- Shampoo and personal care sachets
- Ideal for 2-5 kg bags for flour, detergent powders and salt

Specification and Parameters

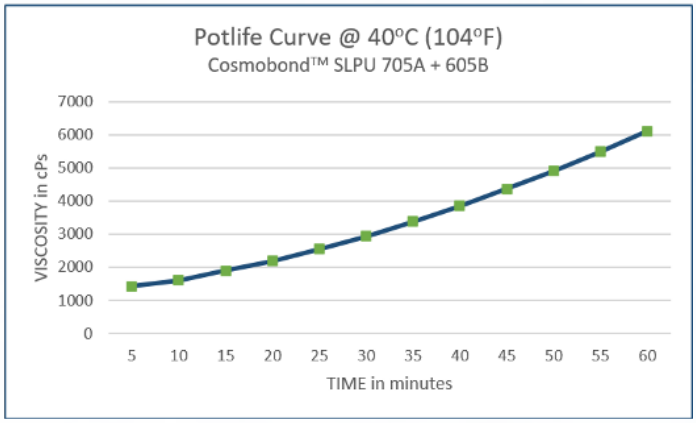
ADHESIVE PROPERTIES		
COMPONENT	**NCO**	**OH**
Viscosity in cPs @ 25°C	3000 - 4000	2500 - 3500
Density @ g/cm^3	1.20 - 1.22	1.17 - 1.19
Appearance	Clear Colourless to Pale Yellow	Colourless to Pale Yellow



Application Parameters		
PARAMETER	**TYPICAL VALUE**	
Coating weight (dry)	1.0 – 2.2 g/m²	
LAMINATION SPEED		
Film to Film jobs	300 - 400 m/min	
Pet/ Met Pet Jobs (without Speckling)	200 m/min	
BOPP/ Met BOPP, BOPP/Met CPP	350 m/min	
ADHESIVE TEMPERATURE		
	NCO	**OH**
Tank Temperature	40 - 45 °C	40 - 45 °C
Dosing Temperature	40 - 45 °C	40 - 45 °C
Metering Roll Temperature	40 - 45 °C	
Application Temperature	45 °C	
Nip Temperature	40 - 45 °C	
Nip pressure	Medium to High	
ADHESIVE MIX RATIO - NCO : OH		
Film to Film and Alu foil jobs	100 : 60/ 70	
Met Film jobs	100 : 80	

Adhesive Pot life

Cosmobond™ SLPU 705A + 605B exhibits an extended pot life, providing ample time for application and assembly operations.



With its excellent balance of performance, efficiency, and versatility, Cosmobond™ SLPU 705A + 605B offers a reliable and cost-effective laminating solution for modern flexible packaging requirements.



GENERAL PURPOSE 2-COMPONENT SOLVENT-FREE PU ADHESIVE

Cosmobond™ SLPU 703A + 603B

Our 2- component solvent-free adhesive is a premium solvent-free polyurethane adhesive system designed for the lamination of flexible packaging structures. Developed for high productivity and consistent performance, it delivers excellent bond strength, superior machinability, and outstanding laminate quality across a broad range of applications.

Compatible Substrates

PET • BOPP • CPP • PE • Paper • Metallized Films commonly used flexible packaging film structures

Processing

Designed for use with standard solvent-free lamination equipment, offering smooth application and reliable curing performance

Product Features:

- Solvent-Free Technology
- Strong and reliable bonding
- Excellent Optical Clarity
- Fast curing characteristics
- Reduced environmental impact
- Easy processing and handling
- Suitable for Food Packaging Applications
- Consistent performance across various packaging structures

Applications

Cosmobond™ SLPU 703A/603B is an ideal solution for a broad spectrum of FMCG and food packaging applications, including:

- Snack Food, Bakery Packaging
- Dry Food and Confectionery Packaging
- FMCG and Home & Personal Care Packaging
- General Flexible Packaging Laminates

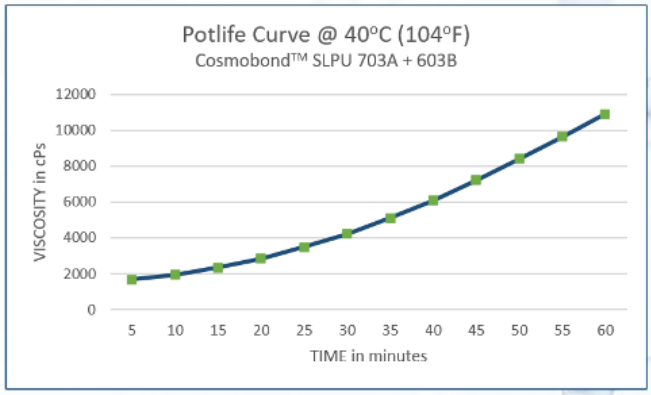
Specification and Parameters

ADHESIVE PROPERTIES		
COMPONENT	NCO	OH
Viscosity in cPs @ 25°C	1000 - 2000	3000 - 4000
Density @ g/cm^3	1.20	1.15
Appearance	Clear Colourless to Pale Yellow	Colourless to Pale Yellow

ADHESIVE PROPERTIES		
COMPONENT	NCO	OH
Viscosity in cPs @ 25oC	**1000 - 2000**	**3000 - 4000**
Density @ g/cm3	1.2	1.15
Appearance	Clear Colourless to Pale Yellow	Colourless to Pale Yellow
BOPP/ Met BOPP, BOPP/Met CPP	200 m/min	
ADHESIVE TEMPERATURE		
	NCO	OH
Tank Temperature	40 - 45 °C	40 - 45 °C
Dosing Temperature	40 - 45 °C	40 - 45 °C
Metering Roll Temperature	40 - 45 °C	
Application Temperature	45 °C	
Nip Temperature	40 - 45 °C	
Nip pressure	Medium to High	
ADHESIVE MIX RATIO - NCO : OH		
Film to Film and Alu foil jobs	100 : 60	
Met Film jobs	100 : 70	

Adhesive Pot life

Cosmobond™ SLPU 703A + 603B offers an optimized pot life that ensures stable viscosity and consistent coating performance during production.





Cosmobond™ SLPU 703A + 603B offers the perfect balance of performance, productivity, and sustainability for general-purpose flexible packaging applications.

Strong Bonds. Efficient Processing. Sustainable Packaging.

Quality, Compliance & Technical Support

- **Global documentation:** Technical data sheets, COA, and application guidance for approval processes.
- **Regulatory readiness:** Packaging-use documentation can support customer validation and local compliance review.
- **Process consistency:** Controlled viscosity, solids, drying behaviour and bond performance for repeatable production.
- **Technical partnership:** Support for substrate trials, line trials, grade selection and troubleshooting.

Why Choose Cosmobond™

- Focused adhesive portfolio for packaging, converting and label industries
- Application-led product selection based on substrate, equipment and end-use conditions
- Reliable quality support for export customer approvals and repeat orders
- Responsive technical support for bonding, coating, drying and converting performance

ABOUT PARENT COMPANY

Established in 1981 by Mr Ashok Jaipuria, Cosmo First Limited is an over four-decade-old global conglomerate. Its consumer vertical comprises Cosmo Consumer, which is into Window Films, Paint Protection Films & Ceramic Coatings for automobiles, and Zigly Pet Care, which provides a digital-first omni channel pet care ecosystem. Its industrial vertical includes Cosmo Films for speciality films for packaging, labels, lamination, and industrial applications; Cosmo Speciality Chemicals for coatings, adhesives and masterbatches, and Cosmo Plastech for rigid packaging. With sustainable innovation, development, and research embedded in its core values, Cosmo First serves customers in 100+ countries.

RESEARCH & DEVELOPMENT

Our cutting-edge R&D facility is equipped with a comprehensive suite of advanced analytical and processing instruments, enabling precise product characterization and innovation at the molecular level.

- Analytical Capabilities: FTIR, FTIR-Microscope, DSC, TGA, DMA, GC-MS, SEM-EDS, Optical Microscope, Particle Size Analyzer, Intrinsic Viscosity Analyzer, and Filter Pressure Test Machine.
- Processing Capabilities: Blown Film Line, Cast Film Line, Twin Screw Lab Extruder, and Advanced Film Stretcher (KARO-IV).

With this robust infrastructure, our scientists deliver precision, reliability, and breakthrough innovation in every stage of product development.



Head Office / Delhi Sales Office

1st Floor, Uppal's Plaza, District Centre, M-6,
Jasola Vihar, New Delhi, Delhi - 110025

Mumbai Sales Office

402, E-Square, 4th floor, Subhash Road, Near Garware House, Vile Parle East, Mumbai - 400057

Manufacturing Unit

B-10, MIDC Area, Waluj, Chhatrapati Sambhajinagar
Maharashtra - 431136