

Premium range of adhesives for the upholstery and furniture industry





bird's eye view of Atul's first site

Founded by Mr Kasturbhai Lalbhai on September 05, 1947, Atul Ltd (Atul) is one of the largest integrated chemical companies of India. The Company manufactures about 900 products and 400 formulations and owns 140 brands. Atul serves 4,000 customers belonging to over 30 industries in approximately 90 countries and has established subsidiary companies in Brazil, China, Ireland, UAE, UK and USA. The Company offers a wide range of products and applications used in several industries including Agriculture, Adhesives, Animal Feed, Automobile, Composites, Construction, Cosmetic, Defence, Dyestuff, Electrical and Electronics, Footwear, Food, Fragrance and Flavour, Glass, Home Care, Horticulture, Hospitality, Paint and Coatings, Paper, Personal Care, Pharmaceutical, Rubber, Soap and Detergent, Sport and Leisure, Textile, Tyre and Wind Energy.

In India, Atul has its production facilities at Ankleshwar, Atul and Panoli in Gujarat, Ambernath and Tarapur in Maharashtra, and in the UK, at Baltonsborough, Somerset. The first manufacturing site of the Company in Atul, Gujarat is spread over 1,250 acres. Atul's shares are listed on the National Stock Exchange and Bombay Stock Exchange.



Aromatics

Bulk Chemicals and Intermediates

Colors

Crop Protection - Bulk Actives

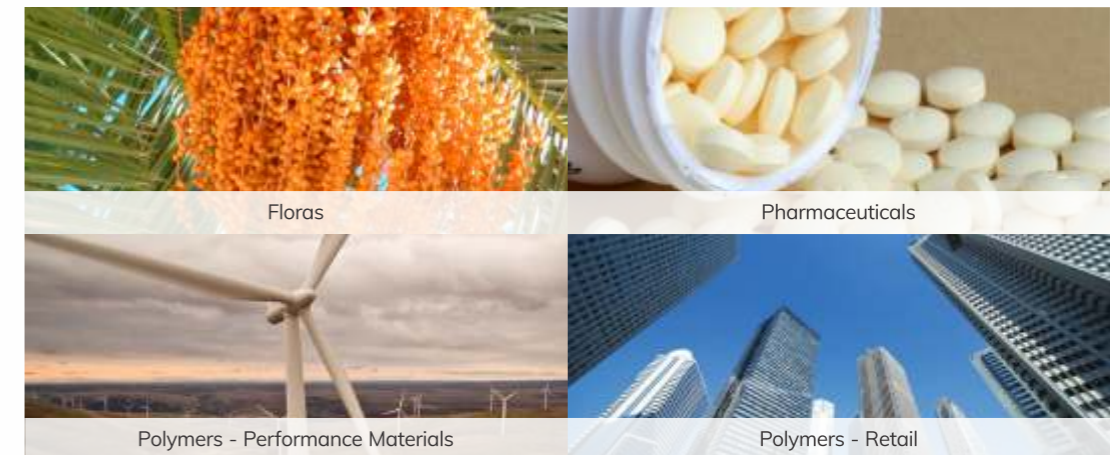
Crop Protection - Retail

Polymers - Retail

A pioneer in manufacturing epoxy resins and hardeners in India, Atul offers a portfolio of world-class products that are used for diverse applications and in a variety of industries including stone processing, construction chemicals, bangles, handicraft, aerospace, defence, high performance paint and sports goods.

Epoxy and allied products are marketed through the brand, Lapox. To cater to growing demand in the automobile and industrial maintenance market, a range of maintenance products are offered through the brand, Lacare.

In 2010, Atul acquired Polygrip to market synthetic rubber and polyurethane-based adhesives. Polygrip serves a number of industries with a wide range of value-added products that find application in footwear, foam and furnishing, furniture, flooring, HVAC and automobiles.



Floras

Pharmaceuticals

Polymers - Performance Materials

Polymers - Retail

Polygrip range of premium adhesives for the upholstery and furniture industry

In interior design, well-chosen furniture is known to uplift the mood, enhance the ambience and often, even improve productivity. Good quality, durable and functional furniture is therefore essential.

I look at every piece of furniture and every object as an individual sculpture.

~ Kelly Wearstler ~

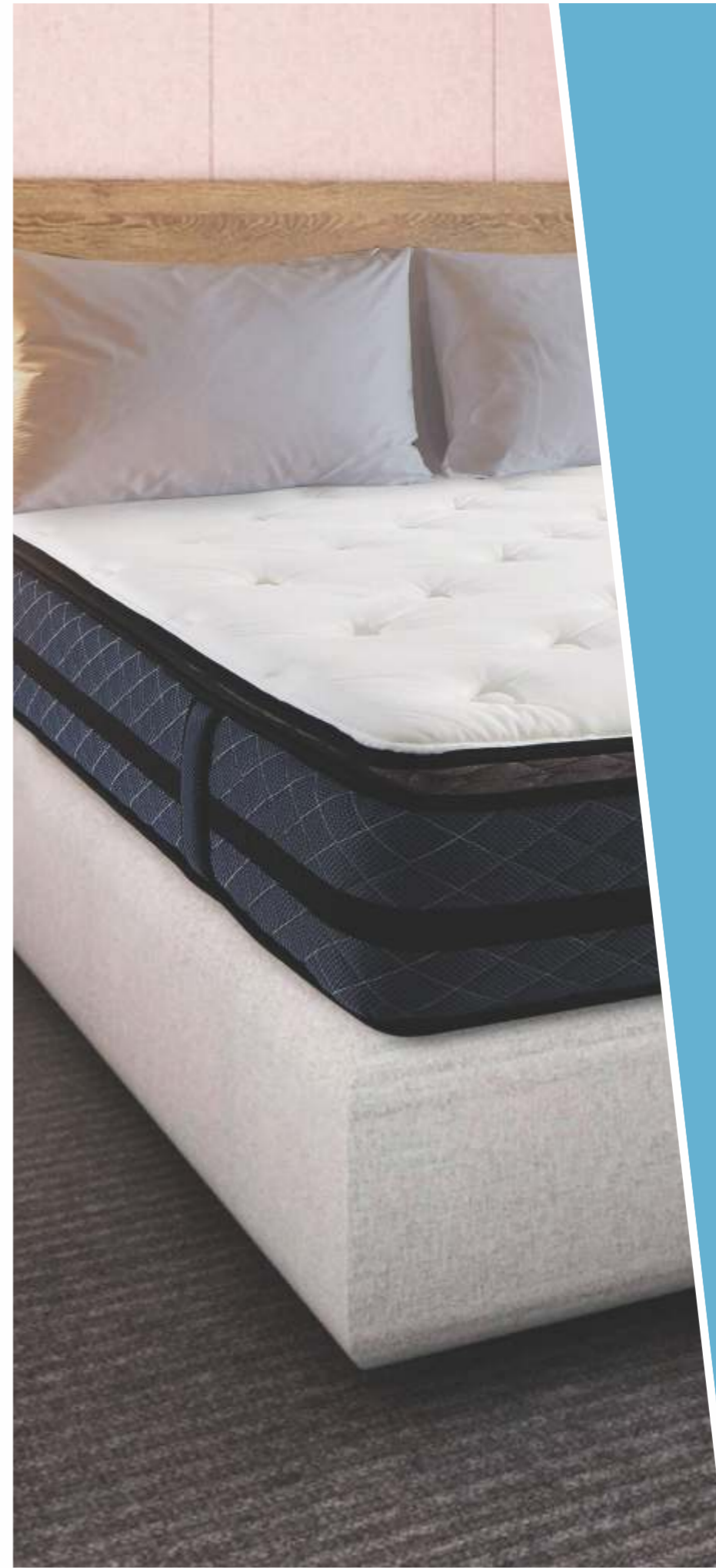
**BRUSHABLE
UPHOLSTERY ADHESIVES**

polygrip®**SR 409****FAST DRYING FOAM ADHESIVE**

Polygrip SR 409 is a light coloured, fast drying, synthetic, rubber-based adhesive. It is specially designed for foam-to-foam bonding to manufacture chairs, mattresses, sofas and enables faster productivity through excellent film formation, high tack and immediate bonding.



Pack size	500 mL	1 L	2 L
		5 L	

**Method of application**

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Uniformly apply Polygrip SR 409 on both the substrates.
- 4 Press both the substrates together ensuring uniform contact once the adhesive becomes tack-free.

Optimum bond strength is achieved after 24 hours curing at room temperature.



Benefits
Fast drying
Strong bond
High coverage
Mild odour
Soft glue line

Applications
Mattresses
Sofas
Chairs

Typical technical data

Test parameters	Typical range
Colour and appearance	Light yellow, viscous liquid
Density at 30 °C	0.80 - 0.85 g/mL
Viscosity at 30 °C	800 - 1,000 cPs
Tack retention time*	Maximum 30 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.

polygrip®**S 709****LONG TACK RETENTION ADHESIVE**

Polygrip S 709 is a dark brown, synthetic, rubber-based adhesive. It is a multi-purpose adhesive suitable for bonding a variety of substrates such as canvas, foam, paper, plastic, velvet and wood.



Pack size	100 mL	200 mL	500 mL	30 L
	1 L	2 L	5 L	

**Method of application**

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Uniformly apply Polygrip S 709 on both the substrates.
- 4 Allow the solvents to evaporate for about 5 - 10 minutes at room temperature to develop tack.
- 5 Press both the substrates together ensuring uniform contact once the adhesive becomes touch-dry.

Optimum bond strength is achieved after 24 hours curing at room temperature.



Benefits	Applications
Long tack retention time	Sofas
Excellent tack quality	Chairs
Mild odour	Furniture
Good coverage	Automobile interiors
Good bond strength	

Typical technical data

Test parameters	Typical range
Colour and appearance	Dark brown, medium viscous liquid
Density at 30 °C	0.80 - 0.84 g/mL
Viscosity at 30 °C	1,000 - 1,500 cPs
Tack retention time*	Maximum 30 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.

polygrip®**SP 809****SPECIAL PURPOSE ADHESIVE**

Polygrip SP 809 is a yellow, synthetic, rubber-based adhesive. This adhesive is suitable for bonding a variety of substrates such as automobile interiors, foam, furniture, handicraft, laminates, non-woven carpets for flooring, PVC, rubber and wood.



Pack size	5 L	30 L
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Benefits	Applications
Good coverage	Carpets
High bond strength	PVC flooring
Mild odour	Sofas
Excellent water resistance	Mattresses
	Furniture
	Automobile interiors

Typical technical data

Test parameters	Typical range
Colour and appearance	Light yellow, medium viscous liquid
Density at 30 °C	0.82 - 0.86 g/mL
Viscosity at 30 °C	1,050 - 1,500 cPs
Tack retention time*	Maximum 30 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.

**Method of application**

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Uniformly apply Polygrip SP 809 on both the substrates.
- 4 Allow the solvent to evaporate for 5 - 10 minutes in order to develop tack.
- 5 Press both the substrates together ensuring uniform contact once the adhesive becomes touch-dry.

Optimum bond strength is achieved after 24 hours curing at room temperature.



polygrip®**MP 609****MULTI-PURPOSE ADHESIVE**

Polygrip MP 609 is a dark brown, synthetic, rubber-based contact adhesive. It is a multi-purpose adhesive suitable for bonding a variety of substrates such as rubber, leather, EVA, rexin, foam and canvas.



Pack size	500 mL	1 L	5 L	30 L

Benefits
Adequate bond strength
Good coverage
Easy to apply
Good tack
Mild odour

Applications
Mattresses
Chairs
Sofas
Carpets

Typical technical data

Test parameters	Typical range
Colour and appearance	Brown
Density at 30 °C	0.78 - 0.82 g/mL
Viscosity at 30 °C	400 - 800 cPs
Tack retention time*	Maximum 30 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.

**Method of application**

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Uniformly apply Polygrip MP 609 on both the substrates.
- 4 Allow the solvent to evaporate for five minutes before bonding.
- 5 Press both the substrates together ensuring uniform contact once the adhesive becomes touch-dry.

Optimum bond strength is achieved after 24 hours curing at room temperature.



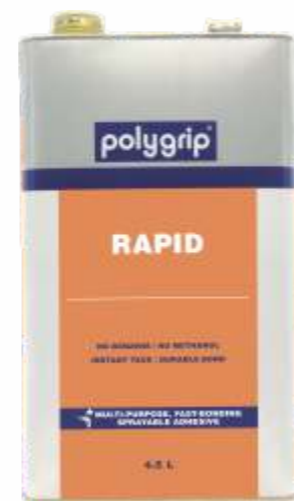
Speed is the norm today. Adopting modern technology enables speed in mass production and sprayable adhesives help upgrade from traditional ones.

SPRAYABLE UPHOLSTERY ADHESIVES



FAST BONDING SPRAYABLE ADHESIVE

Polygrip Rapid is a synthetic, polymer-based adhesive for spray application. It offers low viscosity, quick drying time with maximum tack retention time of five minutes. The adhesive is capable of bonding a variety of substrates such as foam-to-foam, foam-to-wood, foam-to-rexine, fabric and non-woven carpets for furniture and automobile industries.



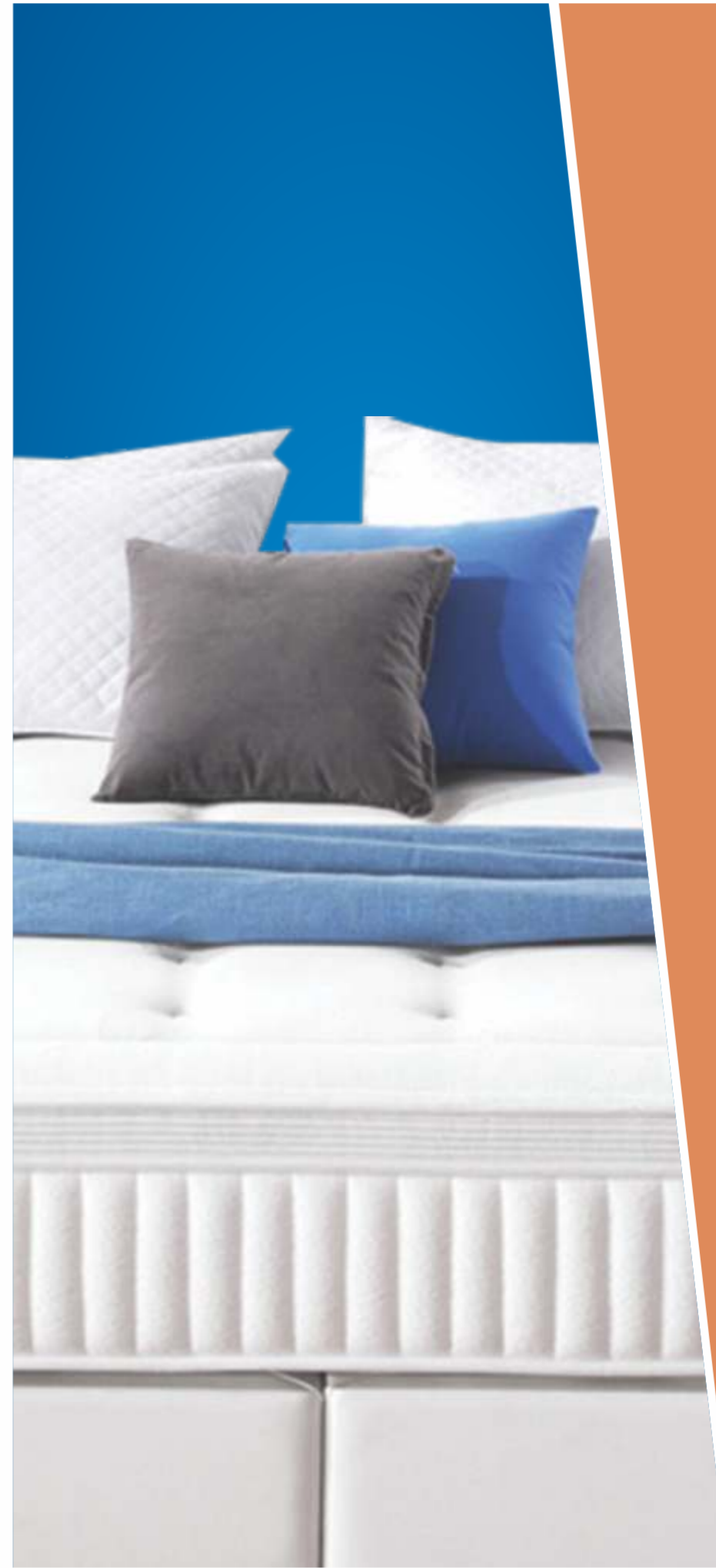
Pack size	4.5 L	15 L	30 L
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Benefits	Substrates	Applications
High productivity	Bonding foam, wood, rexine, non-woven carpets and fabric	Sofas
Mild odour		Mattresses
Quick strength development		Executive chairs
Instant tack		Automobiles (non-woven fabric)

Typical technical data

Test parameters	Test method	Typical range
Colour and appearance	Visual	Yellow to brownish liquid
Density at 30 °C	-	0.80 - 0.85 g/mL
Viscosity at 30 °C	ASTM D 2196	50 - 150 cPs
Tack retention time*	-	Maximum 5 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.



Method of application

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Spray the adhesive on both the substrates by using an air-supported gun with an orifice diameter of 1.5 - 2 mm at an air pressure of 45 - 55 psi.
- 4 Allow the solvent to evaporate for one minute.
- 5 Press both the substrates together ensuring uniform contact.

Optimum bond strength is achieved after 24 hours curing at room temperature.





HIGH STRENGTH, FAST BONDING SPRAYABLE ADHESIVE

Polygrip SP 1 is a specially developed light yellow coloured, fast bonding sprayable synthetic, rubber-based adhesive. It is used by automobile OEMs and ancillary units. It is also recommended for upholstery applications such as chairs, mattresses and sofas due to its ease of application. It offers low viscosity with excellent tack properties.

Benefits	Substrates	Applications
Mild odour	Bonding foam, wood, rexine, non-woven carpets, painted metals, MS, FRP, ABS, PVC foam, and fabric	Mattresses
High productivity		Sofas
Quick strength development		Executive chairs
Instant tack		Automobiles (roof linings, door trims and non-woven carpets)
		Generator canopies
		Luggage



Pack size	30 L
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Typical technical data

Test parameters	Test method	Typical range
Colour and appearance	Visual	Light yellow, low viscous liquid
Density at 30 °C	-	0.78 - 0.87 g/mL
Viscosity at 30 °C	ASTM D 2196	100 - 200 cPs
Tack retention time*	-	Maximum 30 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.



Method of application

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Spray the adhesive on both the substrates by using an air-supported gun with an orifice diameter of 1.5 - 2 mm at an air pressure of 45 - 55 psi.
- 4 Allow the solvent to evaporate for five minutes.
- 5 Press both the substrates together ensuring uniform contact.

Optimum bond strength is achieved after 24 hours curing at room temperature.





NEXT GENERATION, FAST BONDING PREMIUM SPRAYABLE ADHESIVE

Polygrip Rapid NXT is a synthetic, polymer-based adhesive for spray application. It offers low viscosity, quick drying time with maximum tack retention time of eight minutes. The adhesive is ideal for chairs and large size sofa manufacturing applications, which require long tack time and strong bonding for curved edges. It is suitable for premium mattress manufacturing where multiple layers of bonding is required.

Benefits	Substrates	Applications
High productivity	Bonding foam, wood, rexine, non-woven carpets and fabric	Sofas
Mild odour		Mattresses
Quick strength development		Executive chairs
Instant tack		Automobiles (non-woven fabric)



Pack size	15 L	30 L

Typical technical data

Test parameters	Test method	Typical range
Colour and appearance	Visual	Yellow to brownish liquid
Density at 30 °C	-	0.78 - 0.81 g/mL
Viscosity at 30 °C	ASTM D 2196	50 - 150 cPs
Tack retention time*	-	Maximum 8 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.



Method of application

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Spray the adhesive on both the substrates by using an air-supported gun with an orifice diameter of 1.5 - 2 mm at an air pressure of 45 - 55 psi.
- 4 Allow the solvent to evaporate for one minute.
- 5 Press both the substrates together ensuring uniform contact.

Optimum bond strength is achieved after 24 hours curing at room temperature.





Today, customers not only seek functional utility in furniture, but also aspire to create an exclusive style statements through a variety of materials such as plywood, wood and diverse laminates. Using the right adhesive helps achieve this goal.



FURNITURE ADHESIVES



ADVANCED, HEAT RESISTANT AND QUICK BONDING ADHESIVE

Polygrip Hotbond is a synthetic, rubber-based adhesive designed for quick bonding of ply to laminate which is subjected to high service temperatures of up to 170 °C. Due to its high heat resistance, it exhibits a durable bond in high temperature conditions.



Pack size	100 mL	200 mL	500 mL
	1 L		5 L

Benefits	
High bond strength	Low wastage
Faster work due to quick bonding	Can be applied in any direction

Applications
Bonding laminate to plywood, MDF and particle boards
Bonding PVC to plywood, PVC to laminate, laminate to laminate used in kitchens (eg: oven installation)

Typical technical data

Properties	Test method	Typical range
Appearance	Visual	Light yellow
Density at 30 °C	-	0.84 - 0.89 g/mL
Viscosity at 30 °C	ASTM D 2196	2,200 - 3,000 cPs
Tack retention*	-	Maximum 10 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.



Method of application

- 1 Stir the adhesive well to get uniform consistency before application.
- 2 Use a notched spreader to apply the adhesive.
- 3 Apply the adhesive in any direction on both the substrates.
- 4 Wait for 2 - 3 minutes after applying the adhesive till both the substrates become touch-dry.
- 5 Apply strong and uniform pressure on the edges with a wooden plank wrapped in a cloth.
- 6 Keep 2 mm gap between two adjacent laminates in a vertical application and ensure the laminate width is not more than 2 feet.



polygrip[®] PLUS 909

HIGH STRENGTH ADHESIVE

Polygrip PLUS 909 is a brownish yellow, synthetic, rubber-based adhesive. It is a high strength, premium adhesive suitable for bonding a variety of substrates such as canopies, canvas, foam, furniture, handicraft, laminates and wood.



Pack size	100 mL	200 mL	500 mL
	1 L	5 L	30 L



Benefits
High bond strength
Excellent tack quality
Good coverage
Mild odour
Excellent water resistance

Applications
Furniture
Handicraft
Canopies

Typical technical data

Test parameters	Typical range
Colour and appearance	Brownish yellow, viscous liquid
Density at 30 °C	0.83 - 0.89 g/mL
Viscosity at 30 °C	1,800 - 2,600 cPs
Tack retention time*	Maximum 30 minutes

*Tack retention time (open time) is the time required for evaporation of solvent once a thin film of the adhesive is applied on the surface. It may vary depending upon room temperature and humidity.

Method of application

- 1 Stir the adhesive well.
- 2 Ensure that the substrates to be bonded are clean, dry, free of oil and grease stains.
- 3 Uniformly apply Polygrip PLUS 909 on both the substrates.
- 4 Allow the solvent to evaporate for 5 - 10 minutes in order to develop tack.
- 5 Press both the substrates together ensuring uniform contact once the adhesive becomes touch-dry.

Optimum bond strength is achieved after 24 hours curing at room temperature.





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