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Polygrip footwear brochure 08/23



Premium range of footwear adhesives



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 88 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, Ambarnath and Tarapur in Maharashtra, and in the UK, at Baltonsborough, Somerset. The first manufacturing site of the Company in Atul, Gujarat is spread over 1,300 acres. Atul's shares are listed on the National Stock Exchange and Bombay Stock Exchange.

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.



Aromatics

Bulk Chemicals and Intermediates

Colors

Crop Protection - Bulk Actives

Crop Protection - Retail



Floras

Pharmaceuticals

Polymers - Performance Materials

Polymers - Retail

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Rubber adhesives range

Polygrip S 709

ideal for making footwear uppers

Polygrip S 709 is a dark brown, synthetic rubber-based multi-purpose adhesive suitable for bonding a variety of substrates such as rubber soles, leather soles, EVA, rexine and upper soles.

Features

- good coverage
- long tack retention time
- excellent water resistance



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,000 - 1,500 cPs |

Polygrip 909 Plus

ideal for sole attachment and socks application in footwear

Polygrip 909 Plus is a premium brownish yellow, synthetic rubber-based adhesive. It exhibits excellent tack quality for diverse substrates such as rubber soles, leather soles, EVA, rexine and upper soles.

Features

- high and durable bond strength
- excellent temperature resistance
- extremely good water resistance



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,800 - 2,600 cPs |

Polygrip SP 809

premium grade for making footwear uppers

Polygrip SP 809 is a light yellow, synthetic rubber-based, contact adhesive specially designed to perform on various substrates such as rubber soles, leather soles, EVA soles and rexine.

Features

- high bond strength
- excellent tack quality
- excellent water resistance



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,050 - 1,500 cPs |

Polygrip Expo 1009

ideal for side lasting and upper making process

Polygrip Expo 1009 is a fast curing synthetic rubber-based adhesive. It is versatile and suitable for most substrates such as rubber, leather, rexine and foam. It is apt for bonding similar and dissimilar substrates to achieve a strong bond.

Features

- rapid strength development
- heat resistant bond
- fast drying



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 2,000 - 3,500 cPs |

Polygrip Expo 1009 (TF)

ideal for side lasting and upper making process

Polygrip Expo 1009 (TF) is a golden yellow, fast-drying and toluene-free, synthetic rubber-based adhesive. It is versatile and suitable for bonding similar and dissimilar substrates including rubber, leather, wood, rexine, canvas and foam.

Features

- high heat resistant bond
- low absorption on foam
- rapid strength development



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,800 - 3,000 cPs |

Polygrip Crystal

ideal for upper making and socks | insole attachment

Polygrip Crystal is a colourless synthetic rubber-based adhesive suitable for permanently bonding different types of substrates including rubber, leather, rexine, EVA, foam, metal and canvas.

Features

- leaves no stains
- permanent bond
- multi substrate application



| Test parameter | Typical range |
|--------------------|---------------|
| Viscosity at 30 °C | 400 - 800 cPs |

Polygrip Solestar (TF)

ideal for making footwear uppers

Polygrip Solestar (TF) is a fast-drying, toluene-free, synthetic rubberbased adhesive designed to bond various substrates including rubber, leather, rexine and canvas.

Features

- light color
- strong bond
- fast drying



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,000 - 1,500 cPs |

Polygrip Clearfix (TF)

ideal for sole attachment and socks application in light-coloured footwear

Polygrip Clearfix (TF) is a toluene-free, translucent synthetic rubber based adhesive ideal for light-coloured leather and synthetic applications. It is versatile and suitable for most substrates including rubber, leather, synthetic leather, EVA, foam, metal, fabric and canvas.

Features

- ideal for bonding light colour leather
- fast drying
- eliminates stain removing process



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,500 - 1,900 cPs |

Polygrip WTP 888

ideal for bonding of light-coloured leather

Polygrip WTP 888 is a versatile synthetic rubber-based adhesive. It is suitable for bonding leather-to-leather, leather-to-soles made of MCR, EVA, rubber and cork.

Features

- translucent
- permanent bonding
- multi substrate application

| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,050 - 1,500 cPs |



Polygrip NR (TF)

ideal for temporary bonding of leather products and for upper making

Polygrip NR (TF) is a natural rubber (crepe solution) based, toluene-free adhesive recommended for temporary bonding before stitching and suitable for substrates such as leather, foam and fabric.

Features

- ease of application
- good coverage
- fast drying

| Test parameter | Typical range |
|--------------------|-----------------|
| Viscosity at 30 °C | 600 - 1,200 cPs |



Polygrip NR

ideal for temporary bonding of leather products and for upper making

Polygrip NR is a natural rubber-based contact adhesive. It is recommended for temporary bonding of substrates like leather, foam and fabric before stitching

Features

- ease of application
- good coverage
- fast drying

| Test parameter | Typical range |
|--------------------|-----------------|
| Viscosity at 30 °C | 600 - 1,200 cPs |



PU adhesives range

Polygrip PU 1000

ideal for cost-effective bonding of PVC soles

Polygrip PU 1000 is a solvent-based low viscous PU adhesive that creates a superior bond with synthetic substrates such as leather, PVC, PU, EVA, phylon and TPR.

Features

- high bond strength
- economical
- good coverage



| Test parameter | Typical range |
|--------------------|---------------|
| Viscosity at 30 °C | 400 - 800 cPs |

Polygrip PU 3000

premium PU ideal for bonding soles to uppers

Polygrip PU 3000 is a solvent-based, premium polyurethane adhesive especially formulated for manufacturing safety and industrial shoes. It provides a durable bond with synthetic substrates such as PVC, PU, EVA, phylon, TPR and leather.

Features

- better coverage
- excellent water resistance
- significant bond strength



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,100 - 1,500 cPs |

Polygrip PU 2000

ideal for bonding PU soles to synthetic uppers

Polygrip PU 2000 is a solvent-based polyurethane adhesive that creates a durable bond with synthetic substrates such as PVC, PU, EVA, phylon, TPR and leather.

Features

- water and heat resistant
- colourless
- superior coverage



| Test parameter | Typical range |
|--------------------|-----------------|
| Viscosity at 30 °C | 800 - 1,200 cPs |

Polygrip PU 4000

superior strength adhesive for bonding soles to uppers

Polygrip PU 4000 is a solvent-based, premium polyurethane adhesive designed for manufacturing safety and industrial shoes. It is recommended for bonding PU, TPR, EVA and rubber soles to uppers in the footwear industry

Features

- long lasting durable bond
- excellent water resistance
- good coverage



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,100 - 1,500 cPs |

Polygrip PU 6000

premium adhesive for sports shoes

Polygrip PU 6000 is designed for manufacturing sports shoes where high green tack and rapid grabbing are required. This adhesive system provides a strong, durable bond with synthetic substrates such as PVC, PU, EVA, phylon, TPR and leather.

Features

- exceptional bond strength
- faster tack development
- excellent water resistance



| Test parameter | Typical range |
|--------------------|-----------------|
| Viscosity at 30 °C | 950 - 1,350 cPs |

Primers

Polygrip PG 30

TPR primer

Polygrip PG 30 is a two-component system of powder and liquid ideal for TPR soles | rubber | cork surfaces.

Polygrip PG 40

EVA primer

Polygrip PG 40 is a transparent primer ideal for EVA substrates before adhesive application.



Polygrip Solemate (TF)

premium PU adhesive ideal for bonding soles to uppers

Polygrip Solemate (TF) is a premium, toluene free polyurethane adhesive which offers high strength and rapid bonding, ideal for bonding soles to uppers and synthetic substrates like PVC, PU, EVA, phylon, TPR and leather.

Features

- quick grab
- excellent water resistance
- supreme bond strength



| Test parameter | Typical range |
|--------------------|-------------------|
| Viscosity at 30 °C | 1,200 - 1,800 cPs |

Polygrip APP 810

ideal primer for leather bonding

Polygrip APP 810 is a transparent to slightly hazy liquid polyurethane resin. It provides strong bond between substrates and is ideal for leather, PVC, PU injection, rubber footwear.

Features

- oily leather primer
- good coverage
- high bond strength



Polygrip UV Cure

EVA Primer

Polygrip UV Cure is widely used for priming materials with low polarity or non-roughened substrates such as phylon, EVA, compression-moulded preform, etc.

Features

- transparent
- improved bond strength
- anti-yellowing



Polygrip PG 405

primer for EVA substrates

Polygrip PG 405 is a transparent liquid recommended to be used as a primer for EVA substrates before applying the adhesive.



Hardeners and Cleaner

Polygrip HR

isocyanate hardener for PU adhesives

Polygrip HR is a hardener used as a cross-linking agent for polyurethane resins. This mixture is suitable for bonding a variety of substrates such as PU, PVC, EVA and TPR.



Polygrip HR Clear

colourless modified isocyanate hardener

Polygrip HR clear is a colourless hardener for PU resins recommended for light coloured footwear. The use of the hardener along with PU resin provides excellent transparency, flexibility and adhesion. Optimum results are achieved after 24 hours of adhesive application.



Polygrip Hardener Fast Cure

quick setting hardener for PU adhesives

Polygrip Hardener Fast Cure is a quick setting hardener used along with polyurethane (PU) resins. This adhesive system provides strong durable bond with synthetic substrates like PU, PVC, EVA, phylon, TPR and leather.



Polygrip PG 60

Cleaner

Polygrip PG 60 is an ideal for cleaning PVC and PU substrates



