

## Description

Polygrip Rapid Nxt is a synthetic polymer based adhesive suitable for spray application. It offers low viscosity, quick drying time with good tack retention time. The adhesive is ideal suitable for bonding foam to foam, foam to rexine, foam to wood and non-woven carpets for furniture and automobile industries. The adhesive bonds provide good adhesion on curved surfaces. It is suitable for mattress manufacturing where multiple layers is required to be bonded.

## Advantages

- High productivity
- Mild odour
- Quick strength development
- No harmful solvents
- Instant tack

## Applications

- Sofas
- Mattresses
- Executive chairs
- Automobile (non-woven fabrics)

## Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Yellow to brownish red
Density at 30°C	g/ml	-	0.78 - 0.81
Viscosity at 30°C	cPs	ASTM D2196	50 - 150
Tack retention time <sup>1</sup>	Minutes	-	Min 8

<sup>1</sup>Tack retention time (open time) is generally measured after evaporation of solvent once adhesive applied in thin film. It may vary depending upon ambient temperature and humid conditions.

## Process of application

**Surface preparation:** Ensure that substrates to be bonded are clean, dry and free from oil, grease and foreign particles such as dust and rust.

**Application method:** Stir adhesive well and make it homogeneous prior to use. Spray the adhesive by using air supported gun (make-pilot) having orifice diameter of 1.5 mm to 2.0 mm at air pressure of 45 psi to 55 psi. The adhesive to be applied on both the substrates to be bonded. Allow evaporation of solvents for 10-15 seconds. Assemble both the substrates with uniform contact pressure to achieve intimate contact without air pockets. Bonding of foam on curved surfaces, it required to be supported with cloth or rexine immediately. The optimum bond strength is achieved after 24 hours.

## Packaging

Polygrip Rapid Nxt is available in 4.5 L and 30 L metal drums. Other packing may be considered on request.

## Storage and handling

Polygrip Rapid Nxt should be stored in cool and dry place away from moisture, heat and direct sunlight. It contains highly volatile solvents, which will release during application,

processing and use. These volatile solvents are highly flammable, hence adhesive must not come in contact with heat, spark and necked flame. This product has a shelf-life of 1 year if stored in its original container between 2°C and 40°C away from humidity and excessive heat. Please refer to the Safety Data Sheet (SDS) for detailed instructions on storage and handling.

## Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Proper ventilation must be provided to shop floor where adhesive is used. Avoid breathing vapours, mist or gas. Please refer to the SDS for detailed safety instructions.

## Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

## Contact

E-mail: [support\\_polymers@atul.co.in](mailto:support_polymers@atul.co.in)  
Website: [www.atul.co.in](http://www.atul.co.in)

## Note

Polygrip® is a registered trademark of Atul Ltd.

## Manufacturing site

Atul 396 020, Gujarat, India

Telephone: (+91 2632) 230000 | 233261

E-mail: [contact@atul.co.in](mailto:contact@atul.co.in)

---

Disclaimer: The information contained herein is for information purposes only. While enough care is taken in disclosing the information, users of this information are advised to cross-check the same depending upon use | application. Atul Ltd does not give any assurance or warranty or guarantee in regard to the accuracy or completeness of the information and no claim or liability will be accepted or entertained in regard thereto. Atul Ltd makes no warranty of any kind, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or performance or usage of trade.