

Description

Polygrip APP-810 is a colourless liquid resin based on polyurethane. Polygrip HR is a curing agent which is a dark-brown liquid. When they are mixed in appropriate ratio, the cross linking starts and within an appropriate time adhesive cures and provides strong bond between substrates. Polyurethane adhesives are flexible in nature and provide strong bonding with almost all synthetic substrates including polyurethane, polyvinylchloride, and ethyl vinyl acetate.

Advantages

- Ease of application with good coverage
- High bond strength
- Long lasting durable bond
- Mild smell
- No harmful benzene

Applications

- Automotive interiors
- Carpet laying
- Mattresses
- Shoe manufacturing
- Upholstery

Typical specifications

Properties	Unit	Test method	Values	
			Resin Lapox APP-810	Hardener Lapox HR
Appearance	-	Visual	Colourless, low viscous liquid	Dark-brown liquid
Density at 30°C	g/ml	-	0.78 - 0.85	1.18 - 1.30
Viscosity at 30°C	c Ps	ASTM D2196	150 - 250	-
Mixing ratio	Parts by weight	-	100	05

Process of application

Surface preparation: Clean the soles with Polygrip PG-60 to remove oil, grease, dust and dirt etc. Allow to dry for 5 minutes at ambient conditions. Apply relevant primers to substrate, depending upon type of substrates like EVA, TPR and PU. Allow to dry for at least 20 minutes to 30 minutes at ambient temperature. Thoroughly roughen and clean the upper component by using suitable tools.

Application: Take 100 g of Polygrip APP-810 in a clean container and add 5 parts by weight of hardener Polygrip HR. Mix thoroughly to get homogeneous mixture. The mixture thus prepared is suitable to use up to 4 hours at ambient conditions. Apply adhesive uniformly on both the components to be bonded by using brush or suitable tools. Allow adhesive to dry for 20 minutes to 30 minutes at ambient conditions. In case of porous (absorbing) substrate, apply second coat of adhesive and allow drying for 20 minutes to 30 minutes at ambient temperature. Allow substrates to heat at 70°C to 75°C for 3 minutes to 5 minutes in appropriate equipment. Bond both the components immediately in hot condition with firm and uniform pressure in appropriate device. Allow components to cool at room temperature under full pressure before release to achieve faster production components can be cooled with the help for chilling unit under pressure. After cooling, remove the excess adhesive from the components carefully with the help of a crepe rubber roll. To achieve optimum strength, allow components to cure for 24 hours at ambient conditions.

POLYGRIP® APP-810

Technical Data Sheet | Polymers Business



Packaging	Polygrip APP-810 is available in 1 L, 5 L and 30 L MS drums. Other packing may be considered on request.
Storage and handling	Polygrip APP-810 should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf-life of 1 year, if stored in its original container between 18°C and 25°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, the resin should be washed off immediately with soap and warm water. 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.
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Note	Polygrip® is a registered trademark of Atul Ltd.

Manufacturing site

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