

POLYGRIP® HVAC UNIQUE



Technical Data Sheet | Polymers Business

Description

Polygrip HVAC UNIQUE is high strength synthetic rubber based adhesive recommended for various insulation requirements in HVAC and R segment. Polygrip HVAC Unique has excellent adhesion to variety of substrates like galvanised iron, aluminum steel, nitrile rubber, glass, wool and cross linked polyethylene to provide insulation requirements of HVAC and R applications.

Advantages

Ease of application with good area coverage
Excellent adhesion to variety of substrates
Excellent tack and tack retention time
High bond strength
Long lasting durable bond with excellent water and heat resistance
Mild smell
No added benzene in formulation

Applications

AC ducting and air ventilation system fabrications: Bonding of nitrile rubber, cross linked polyethylene and glass wool to duct surfaces.

Chilled water piping: Bonding of nitrile rubber, cross linked polyethylene and glass wool to painted MS surface.

Acoustic insulation: Bonding of nitrile rubber, cross linked polyethylene to painted concrete surfaces | galvanised iron duct inner surface.

Under deck Insulation: Bonding of nitrile rubber and cross linked polyethylene to painted concrete surfaces.

Typical specifications

| Properties | Unit | Test method | Values |
|----------------------------------|---------|-------------|----------------------|
| Appearance | - | Visual | Brown viscous liquid |
| Density at 30°C | g/ml | - | 0.83 - 0.89 |
| Viscosity at 30°C | c Ps | ASTM D2196 | 1,800 - 2,600 |
| Tack retention time ¹ | Minutes | - | Max 30 |

¹Tack 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 humidity 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. Apply adhesive uniformly in thin layer on both the substrates to be bonded with brush, spatula or any suitable tool. Allow evaporation of solvent from adhesive layer. The evaporation of solvent may take 5 minutes to 10 minutes, which depends upon ambient temperature and humidity. Assemble both the substrates with uniform contact pressure to achieve intimate contact without air pockets. The optimum bond strength is achieved after 24 hours.

Packaging

Polygrip HVAC UNIQUE is available in 30 L MS drums. Other packing may be considered on request.

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Storage and handling Polygrip HVAC UNIQUE 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.

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Note Polygrip® is a registered trademark of Atul Ltd.

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