

Instructions for Use

Aortha OrthaGrip Rubber Solution Cement - Tin

Product type: solvent-based natural rubber contact adhesive for professional footwear, orthotic manufacture and shoe repair use.

Suitable materials: leather, rubber, textiles, fibreboards and cork. Compatibility should be confirmed on a small area before production use.

Order codes: RA1290 (1 Litre) RA1289 (5 Litre)

BEST FOR FOOTWEAR & FLEXIBLE RUBBER BONDING



How to use

- 1 Ensure both bonding surfaces are clean, dry and free from grease, dust and loose fibres.
- 2 Sand, grind or roughen smooth materials before bonding to increase the surface area.
- 3 Apply a thin, even coat of OrthaGrip to both surfaces using a suitable brush or spreader.
- 4 Allow solvent to evaporate until the adhesive is tacky; typical tack time is 5-15 minutes depending on material, temperature and humidity.
- 5 Align carefully before contact. Bring surfaces together and apply firm, even pressure across the full bond area.
- 6 Do not reposition once contact is made. Leave the bonded item to cure fully for up to 24 hours before stress, heat or repeated flexion.

Hazards from product label

Danger. H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation. H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.
 Contains: toluene; 4-tert-butylphenol formaldehyde resin phenolic resin; Hydrocarbons, C6, isoalkanes, <5% n-hexane; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

Precautions and storage

Area	Instruction
Fire and ignition	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In case of fire: use foam or dry powder for extinction.
Ventilation and exposure	Use only in a well-ventilated area. Avoid breathing vapours. Keep container tightly closed when not in use.
Personal protection	Wear suitable protective gloves, protective clothing and eye/face protection. Wash hands after use and before breaks.
Environment	Avoid release to the environment. Collect spillage using appropriate absorbent material and dispose of in line with local requirements.
Storage	Always store in an upright position, tightly closed, in a cool dry place away from ignition sources and incompatible materials.

Use limitations

For professional and specialist workshop use. Do not use on unsuitable substrates or where a rigid structural bond is required. Confirm material compatibility, finish and bond strength before use in a patient device or finished footwear item.

First aid and incident response

If skin irritation, dizziness or other symptoms occur, stop work and move to fresh air. Remove contaminated clothing. Seek medical advice if symptoms persist or exposure is significant. Refer to the current Safety Data Sheet before use.

Manufacturer/brand: Manufactured for aortha, Bridge Industrial Estate, Speke Hall Road, Liverpool, L24 9HB. For the current Safety Data Sheet and product information, visit algeos.com.

Product Specification

Aortha OrthaGrip Natural Rubber Adhesive for Footwear

Best for: leather, rubber and mixed-material bonding where flexibility and heat resistance are required.

Not ideal for: applications requiring rigid, structural bonds or permanent high-load fixation.

PROFESSIONAL FOOTWEAR, ORTHOTIC AND SHOE REPAIR USE



What it is

Solvent-based adhesive formulated around a natural rubber polymer system. It provides high initial tack with long-term flexibility for bonded materials subject to repeated movement, flexion or moderate heat exposure.

Who it is for

- Orthotists, prosthetists and orthotic technicians
- NHS, hospital-based and fabrication workshops
- Podiatry clinics adapting orthoses in-house
- Shoe repairers, bespoke footwear makers and technicians
- Educational institutions teaching footwear or orthotic manufacture

Typical applications

- Bonding leather uppers, linings and insoles
- Fixing rubber soles, heels and outsole components
- Assembling orthotic shells, top covers and posting materials
- General footwear repairs requiring a discreet adhesive finish
- Fabric and flexible plastic bonding where movement is expected

Characteristics

- High initial strength with flexible cured bond
- Medium open time for controlled positioning
- Good heat resistance once cured
- Suitable viscosity for precision application

How to work with it

Apply a thin, even layer to both bonding surfaces. After a short drying period, bring the surfaces together with firm, even pressure. Once contact is made, repositioning is limited, so check alignment carefully before bonding.

Expected use timeline

First use: typically reaches correct tack within 5 to 15 minutes depending on materials, temperature and humidity. Bonding occurs immediately on contact.

Ongoing use: leave to cure fully for up to 24 hours before stress, heat or repeated flexion.

Key benefits

- Designed for flexible footwear and orthotic materials
- Predictable tack development supports efficient workflows
- Discreet mild yellow finish for visible or concealed bonds
- Available in multiple tin sizes to suit usage volume

Common mistakes to avoid

- Applying too thickly, extending drying time
- Bonding before the adhesive has reached correct tack
- Attempting to reposition parts after contact bonding
- Using on unsuitable materials without compatibility testing

Technical specifications

Specification	Details
Polymer base	Natural rubber
Solid content	11-13% NV
Brookfield viscosity	0-110 Poises (7,500-12,000 mPas) at 22 +/- 4 deg C
Colour	Mild yellow
Drying time	5-15 minutes depending on materials and conditions
Open time	Medium; up to 2 hours before becoming unusable
Specific properties	High initial strength with good heat resistance
Pack sizes	1 Litre tin, 5 Litre tin