SOUDAL

Technical datasheet

Soudabond EPS Gun

Product description

Soudabond EPS Gun is a gun applied, ready to use, one component, self-expanding polyurethane adhesive. The product has been developed for clean, efficient, economic and permanent bonding of EPS panels for internal and external application.

Properties

- Saving of up to 30% in working time
- Excellent initial bond, even at low temperatures
- Economical in use due to precise application
- One can covers up to 12 m² of insulation
- Suitable for vertical applications
- Can be applied at temperatures between +5 °C and +30 °C
- Good thermal conductivity which enhances performance of insulation panels when filling gaps
- Remains flexible, does not become brittle
- Levels uneven surfaces
- Limited post expansion for fast and precise installation of insulation panels
- Substantial space and weight savings compared to conventional bonding mortars, etc.
- Fast curing, work can continue about 1 hour after application
- Solvent-free
- Resistant to a variety of solvents, paints and chemicals
- Does not age or rot, mould and mildew resistant, but not UV-resistant

Applications

- Clean, efficient and economical permanent bonding of insulation panels.
- Bonding of EPS insulation panels onto interior and exterior walls (not suitable for ETICS).
- Bonding of decorative elements onto walls.
- Filling of cavities between individual thermal insulation panels.

Technical data

Base		Polyurethane
Consistency		Stable foam, thixotropic
Curing system		Moisture curing
Skin formation		About 8 minutes - 30 mm adhesive bead
Can be trimmed		About 50 minutes - 30 mm adhesive bead
Curing speed		About 30 minutes - 30 mm adhesive bead
Full strength		About 12 hours - 30 mm adhesive bead
Thermal conductivity (λ)	EN 17333-5	0,037 W/m.K
Density	EN 17333-1	ca. 22 kg/m³
Postexpansion		Minimal
Tensile strength	EN 1607	0,18 N/mm²

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Temperature resistance	-40°C → +90°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  Adhesive surfaces must be stable, clean, without bubbles and free of separating agents such as talcum, grease, oils, etc. Suitable are building moist, but not wet (water film, standing water) substrates. Any cement slurries and sinter layers on mineral substrates must be removed mechanically. Bubbles in bituminous sheeting must be removed. To ensure perfect adhesion, the bituminous sheeting should have a fully covered surface.
- Substrate types
  All usual substrates such as concrete, masonry, stone, plaster, wood, cold bituminous thick coatings, sand or slate surfaced bituminous sheeting, polystyrene, polyurethane and phenol resin foam, corrosion protected steel sheeting, fibre cement, gas concrete, particle board, plasterboard, gypsum fiberboard, fibre cement, hard PVC and emulsion paints. We always recommend a preliminary test of the substrates to check for suitability with regard to adhesion and compatibility.
- Not suitable substrates
  PE PP PTFE (Teflon®) silicone

Application method

- Application method
  Prior to using the product, cover all adjacent areas for protection against soiling. In windy conditions, precautions must be taken to ensure that Soudabond EPS Gun cannot contaminate components, objects or persons in the vicinity. Good ventilation must be ensured for indoor use. Wear protective goggles and gloves. Tightly screw the can to the thread in the gun and shake the gun about 20 times downwards so that the contents are mixed well to ensure an optimum adhesive quality and high yield. After extended periods of non-use, the gun must be shaken again to obtain the required adhesive quality! With the adjusting screw on the gun, adjust the adhesive bead to the required diameter. (The emptier the can, the more the adjusting screw needs to be opened). The gun must be held vertical during application.

  A distance of 1 to 2 cm must be maintained between the gun nozzle and insulation panel/substrate while spraying. Apply a circular bead of Soudabond EPS Gun to the insulation panel with enclosed M/W to cover an adhesive area of minimum 40% with pressure applied.

  Wait at least 2 to maximum 8 minutes (20°C/65% R.H. – this time is shorter at higher temperature/humidity and longer at lower temperature/humidity) and subsequently press the insulation panel against the wall. Work from bottom to top without gap. Insulation panels must be bonded staggered in outer corners of buildings. Installed insulation panels can be adjusted with a long spirit level after 10 to 15 minutes to correct any post expansion of the adhesive. It is recommended to fix the last installed insulation panel during breaks. Do not tap or remove and reapply panels as this will damage the adhesive structure and reduce the adhesive strength substantially. At high temperatures and low humidity in particular, curing can be accelerated by lightly spraying the adhesive bead with water.

  General note: Do not load/subject the bond to traffic within the curing time of about 1 hour! All open joints within the insulation can be filled out with Soudabond EPS Gun. Trim protruding, fully cured adhesive with a sharp knife. Soudabond EPS Gun can be painted or plastered after curing.

- Can temperature
  +5 °C to +25 °C Optimal +15 °C to +25 °C. If required, slowly bring the can to the optimal temperature by placing in cool or warm water.
- Surface temperature
  +5 °C to +35 °C
- Cleaning method
  With Soudal Gun & Foamcleaner or Swipex prior to curing, subsequently with PU Remover or remove mechanically.

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- Repair method
  Repair with Soudabond EPS Gun.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Always wear gloves and goggles.
Remove cured foam mechanically. Never burn away.
Use only in well-ventilated areas.

Packaging/Logistics

Colour: Grey
Packaging: 750 ml aerosol (net)
Shelf life: 24 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Once opened, keep container tightly closed and use within a short period.

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