

Soudabond EPS Manual

Date: 28/11/23

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Technical Data:

Base	One component Polyurethane
Consistency	Stable Adhesive Foam - does not sag
Curing system	Moisture Cure at room temperature
Free foamed density (EN 17333-1)	Ca. 29 kg/m ³
Curing speed (*)	About 30 minutes - 30 mm adhesive bead
Skin formation (*)	About 8 minutes - 30 mm adhesive bead
Can be trimmed (*)	About 60 minutes - 30 mm adhesive bead
Full strength (*)	About 12 hours - 30 mm adhesive bead
Post expansion	Minimal
Thermal conductivity (EN 17333-5)	About 0,037 W/(m.K)
Tensile strength (DIN EN 1607)	0,18 N/mm ²
Temperature Resistance	-40°C until +90°C when cured +120°C (until maximum 1 hour)

(*) measured at 20°C, 65% R.H.. These values can vary as a result of factors in the environment such as temperature, moisture, type of surface, etc.

Product Description:

Soudabond EPS Manual is a, 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. With a combination of a special formulation and the Soudal Mega Adapter the yield is increased and the cured foam has almost no expansion after extrusion.

Characteristics:

- Saving of up to 30% in working time.
- Excellent initial bond, even at lower temperatures.
- Economical in use due to precise application.
- One can covers up to 10 m² of insulation.
- Suitable for vertical applications.
- Can be applied at temperatures as low as +5°C
- Excellent insulation characteristics, enhances performance of insulation panels when filling gaps (ca 0,037 W/(m.K).
- Remains flexible, does not become brittle.
- Suitable for uneven surfaces as it fills cavities.
- Limited post expansion, resulting in fast and precise installation of insulation panels.
- Substantial space and weight savings compared to conventional bonding mortars, etc.
- Fast curing; 2 hours after application work boards can be plastered
- Solvent-free.

- Resistant to a variety of solvents, paints and chemicals.
- Does not age or rot, but should not be exposed to UV radiation (cover with paint or plaster if necessary).

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.

Packaging:

Colour: grey

Packaging: 750 ml aerosol can (12 per box)

Shelf life and Storage:

18 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°. Upright storage is recommended. Once opened, keep container tightly closed and use within a short period.

Substrates:

All usual substrates such as concrete, masonry, stone, plaster, wood, cold bituminous thick coatings, sand or slate surfaced bituminous sheeting, polystyrene, polyurethane and phenol

Remark: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

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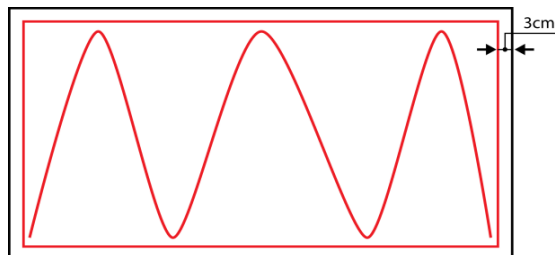
resin foam, corrosion protected steel sheeting, fibre cement, gas concrete, particle board, plasterboard, gypsum fibreboard, fibre cement, hard PVC and emulsion paints.

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. Does not adhere to PE, PP, PTFE and silicone. All substrates should be tested for suitability with regard to adhesion and compatibility.

Directions for use:

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 MANUAL cannot contaminate components, objects or persons in the environment. Good ventilation must be ensured for indoor use. Wear protective goggles and gloves. Screw the straw onto the valve shake the can 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 can must be shaken again to obtain the required adhesive quality! The can must be held vertical during application.

A distance of 1 to 2 cm must be maintained between the straw nozzle and insulation panel/substrate while spraying. Apply a circular bead of SOUDABOND EPS MANUAL 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 2 hours! All open joints within the insulation can be filled out with SOUDABOND EPS MANUAL. Trim protruding, fully cured adhesive with a sharp knife. SOUDABOND EPS MANUAL can be painted or plastered after curing.

Application temperature:

+5°C to +35°C (adhesive surface temperature)
+5°C to +25°C (can temperature) – optimal +15 to +25°C. If required, slowly bring the can to the optimal temperature by placing in cool or warm water.

Cleaning: with GUN & FOAM CLEANER or SWIPEX prior to curing, subsequently with PU REMOVER or remove mechanically.

Repair option: with SOUDABOND EPS MANUAL

Safety recommendations:

Observe the standard industrial hygiene procedures. Wear protective goggles and gloves. Remove cured adhesive mechanically, never remove with a flame. Use only in well-ventilated areas. For further information on product safety and handling, refer to the information on the container.

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