

Soudaseal Mirror

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Technical data

Basis	MS Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 10 min
Curing speed * (23°C/50% R.H.)	2 mm/24h → 3 mm/24h
Hardness**	50 ± 5 Shore A
Density	1,62 g/ml
Elastic recovery (ISO 7389)**	> 75 %
Maximum allowed distortion	± 20 %
Initial tack	> 80 kg/m ²
Max. tension (ISO 37)**	1,90 N/mm ²
Elasticity modulus 100% (ISO 37)**	0,75 N/mm ²
Elongation at break (ISO 37)**	600 %
Consumption (*)	Approx. 7 m per cartridge (single bead with triangle nozzle)
Temperature resistance**	-40 °C → 90 °C
Application temperature	5 °C → 35 °C
Shrinkage	< 2%

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Soudaseal Mirror is a high quality, neutral, 1-component mirror adhesive based on MS-Polymer.

Properties

- Fast curing
- Stays elastic after curing and very sustainable
- Very low emission, EC1 PLUS R certified
- Low odour
- Does not contain solvents
- Does not contain isocyanates and no silicones
- No risk for staining on porous substrates (migration of plasticizer).

Applications

- Stress-free bonding of mirrors that comply with EN 1036-1 and EN 1036-2. For other mirrors the compatibility needs to be tested.

Packaging

Colour: grey

Packaging: 290 ml cartridge

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Chemical resistance

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual building substrates, treated wood, PVC, plastics

Nature: rigid, clean, dry, free of dust and grease.

Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with

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a Soudal activator or cleaner (see Technical Data Sheet).
Soudaseal Mirror has excellent adhesion on most substrates. Soudaseal Mirror can also be used on natural stone. Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or copper-containing materials such as bronze and brass. We recommend a preliminary adhesion and compatibility test on every surface.

Joint dimensions

Min. thickness: 3 mm

Application method

Before bonding, the backcoating of the mirror should be checked for damages (eg scratches). Do not bond a damaged mirror. Apply product with the enclosed triangular nozzle in vertical beads to the back of the mirror. Depending on the dimension and weight of the mirrors, beads should be placed at equal distances between 10 to 20cm from each other. Use a double sided mirror tape for an initial tack and to create the necessary ventilation behind the mirror. See also 'Remarks'.

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks

- Due to the wide variety of types of mirrors, we strongly recommend preliminary compatibility tests.

- Due to the low initial tack, the mirrors need to be supported during the curing process until the adhesive has fully cured. The time required depends on the weight/size of the mirror, temperature, relative humidity and the amount of product used.
- In order to avoid possible problems due to condensation, the mirror manufacturers as well as Soudal recommend sufficient ventilation at the back of the mirror. As a guideline, an opening of 3 mm should be left between the surface and the mirror. This can be assured by the use of double sided mirror tape.
- We recommend this minimal ventilation opening of 3 mm to ensure correct curing of the adhesive/sealant. Full surface bonding is at own risk of the applicator.
- For larger mirrors always use the adhesive in combination with a high quality double-sided mirror tape.
- Mirrors that are fitted with a safety film at the back to avoid shattering must be pre-treated with an adhesion promoter. The use of Soudal Surface Activator will ensure the best bonding performance on this type of safety film. Without the use of Soudal Surface Activator the adhesive bond might be insufficient with the risk of an unsafe situation.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Soudaseal Mirror can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.

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Environmental clauses

Lead regulation:

Soudaseal Mirror conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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