SOUDAL

Technical datasheet

Mirror Fix

Product description

Mirror Fix is a high quality, neutral, 1-component mirror adhesive based on SMX-polymer. Mirror Fix is a high strength mirror adhesive, compatible with all acetone resistant mirrors.



Properties

- Fast curing
- Primerless adhesion, even on damp surfaces due to unique adhesion promoters.
- Permanently elastic after curing
- Impervious to mould, contains biocide with fungicidal action
- Low odour
- Solvent-free
- Non staining on natural stone

Applications

- Bonding of all kinds of mirrors with an acetone safe back.
- Sealing of joints in mirror walls.
- Bonding of mirrors, even on damp surfaces.
- Recommended by Saint-Gobain for bonding Miralite Natura and Miralite Pure.

Technical data

Base		SMX Hybrid Polymer
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 10 minutes
Curing speed		2 mm/24h → 3 mm/24h
Density		ca. 1.60 g/ml
Maximum allowed joint movement		± 20 %
Elasticity modulus	ISO 37	ca. 1.50 N/mm²
Elastic recovery	ISO 7389	> 60%
Elongation at break	ISO 37	ca. 600 %
Maximum tension	ISO 37	ca. 2.00 N/mm²
Hardness		50 ± 5 Shore A
Initial tack		> 80 kg/m²
Application temperature		+5°C → +35°C
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
  The surface must be rigid, clean, dry, free of dust and grease.

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- Substrate preparation
  Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with a soudal activator or cleaner (see technical data sheet).
- Substrate types
  Mirror Fix has a good adhesion to following substrates: all usual building substrates, lacquered wood, natural stone, plastics, PVC, etc.. Mirror Fix has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
  Apply Mirror Fix in vertical beads to the back of the mirror. Depending on the dimension and weight of the mirror, beads should be placed at equal distances between 10 to 20 cm from each other. See remarks
- Application tools
  With a manual, pneumatic or battery caulking gun.
- Cleaning method
  Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use.
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  Repair with the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 15 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Once opened the product has only a limited shelf life.

Joint dimensions

- Min. width for bonding: 10 mm
  Min. thickness: 3 mm
  Recommendation: use double-sided adhesive tape as a spacer between the wall and the freely suspended mirror.

Environmental clauses

- Leed regulation: Mirror Fix 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.

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 Mirror Fix used.

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- In order to avoid possible problems due to condensations, the mirror manufactures 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 adhesion 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.
- Mirror Fix has a good UV resistance but can discolour under extreme conditions or after long UV exposure.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- Mirror Fix can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- 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 discoloration and loss of adhesion.

This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. It is general in nature and does not constitute any liability. 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. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.

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