



TBP Converting, Inc.
Sikaflex 124 - Mirror Grip PDS

Sikaflex[®]-124

Mirror Grip, One Component Adhesive

Typical Product Data

Chemical base		1-C polyurethane
Color		Gray
Cure mechanism		Moisture Cured
Density (uncured)		10.8 lbs./gal (1.3 kg/l)
Skin time ² (CQP ¹ 019-1)		40 min.
Application temperature	Ambient	40 - 100°F
Curing speed (CQP 049-1)		(see diagram 1)
Shrinkage (CQP 014-1)		3%
Shore A-hardness (CQP 023-1 / ISO 868)		30
Tensile strength (CQP 036-1 / ISO 8339)		150 psi (1 MPa)
Elongation at break (CQP 036-1 / ISO 8339)		600%
Tear propagation resistance (CQP 045-1 / ISO 34)		40 pli (7 N/mm)
Service temperature (CQP 513-1)	Permanent	-40°F to 170°F
Shelf life (storage below 77°F (25°C))		12 months

¹) CQP = Corporate Quality Procedure ²) 73°F (23°C) / 50% R.H.

Description

Sikaflex[®]-124 Mirror Grip is a one-component, moisture-cure, instant grip, polyurethane adhesive used to bond flat glass mirror products to a wide variety of construction materials. Ideal for securing vertical items in place instantly.

Product Benefits

- Excellent green strength for instant grip
- Excellent adhesion on most interior substrates
- Low odor / Low VOC
- Flexible to allow movement between substrates
- Will not discolor or stain mirror

Areas of Application

- Designed for adhering mirrors to multiple substrates including: Drywall, painted drywall, concrete, wood, brick, tile, and painted steel
- Floor moldings and door sills
- Lightweight construction materials
- Can be used on Category II safety film

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, label and Safety Data Sheet, which are available on request at tsmh@us.sika.com. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product as set forth in the current Product Data Sheet, label and Safety Data Sheet prior to product use.

Cure Mechanism

Sikaflex®-124 Mirror Grip cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the reaction proceeds more slowly. (See Diagram 1)

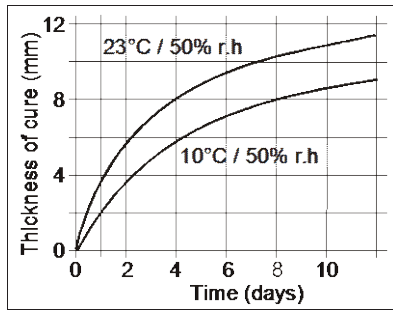


Diagram 1: Curing speed Sikaflex®-124 Mirror Grip

Limitations

- A mechanical support system must be used during and after installation
- Avoid contact with alcohol and all alcohol containing products during cure
- Test tough-to-bond surfaces before applying
- Do not use on tar, bituminous or asphaltic based surfaces
- Due to multiple paint types and variances in chemistry, it is recommended to test all painted glass products with Sikaflex®-124 Mirror Grip prior to application to ensure proper performance

Method of Application

Surface preparation

Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed.

Application

Recommended application temperatures: 40° - 100°F. For cold weather application, condition material to 65°- 75°F before using. Cut plastic tip of nozzle to desired size and puncture airtight seal at base of tip. Force adhesive onto bonding surface. Apply adhesive as

vertical beads spaced at 8 inches apart or in 1 - 2 inch circular shaped patties every square foot. There is approximately 30 minutes time to reposition an object with Sikaflex®-124 Mirror Grip, providing the object is not removed from the substrate in such a way that it loses contact with the bonding surface and breaks the continuity of the adhesive bead between the substrate and the object being bonded. Heavier substrates may require additional support during the cure period.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the adhesive. To facilitate tooling, wet pointing tool or finger with Sika Slick®. Do not use alcohol or alcohol-containing products for tooling.

Removal

Uncured Sikaflex®-124 Mirror Grip can be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using a suitable industrial hand cleaner and water. Strictly follow solvent manufacturer's instructions for use and warnings. Do not use solvents on skin!

Overpainting

Sikaflex®-124 Mirror Grip can be overpainted when tack-free. The paint and paint process must be tested for compatibility by carrying out preliminary trials. The hardness and film thickness of the paint may impair the elasticity of the adhesive and lead to cracking of the paint film with time.

Further Information

Advice on specific applications will be given on request. To contact Sika Corporation's Industry Technical Department please send an email to tsmh@us.sika.com. Copies of the following publications are available on our website.

www.sikaindustry.com:

- Safety Data Sheets
- Product Data Sheets
- Sika Flat Glass Glazier's Training Manual

Packaging Information

Cartridge	300 ml
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Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Limited Material Warranty

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.