

GENERAL DESCRIPTION

H-Silicone MIRROR is a premium-quality, one-component **neutral silicone sealant** based on alkoxy technology, specifically developed for the safe bonding and sealing of mirrors and glass elements. Unlike acetoxysilicones, its neutral curing system is odourless and non-corrosive, ensuring that mirror backings (silver coatings) and sensitive metals remain unaffected.

The product is certified according to **EN 15651-2** for glazing applications. It offers up to **300% elongation**, permanent elasticity, excellent UV resistance, and outstanding adhesion without primer to glass, glazed surfaces, wood, ceramics, enamelled and lacquered surfaces, as well as laminated boards. Once cured, it withstands temperatures from **-40 °C to +150 °C**. Not paintable.

Key Benefits

- **Mirror Safe** – Neutral alkoxy curing technology prevents corrosion and damage to mirror backings.
- **Non-Corrosive** – Suitable for sensitive metals such as copper, brass, and lead, as well as alkaline substrates including concrete and plaster.
- **EN 15651-2 Certified** – Fully compliant with glazing application requirements.
- **Odourless** – No vinegar-like smell during curing, making it ideal for indoor applications.
- **Wide Temperature Resistance** – Maintains performance from -40 °C to +150 °C after curing.

APPLICATIONS

Furniture Manufacturing

- Bonding mirrors to wardrobe and cabinet doors.
- Installing glass panels in furniture.
- Securing glass shelves in display cabinets and vitrines.
- Applications requiring a reliable, non-damaging bond.

Joinery and Assembly

- Sealing mirror edges within frames.
- Bonding decorative glass elements to furniture fronts.
- Assembly of glass-to-glass furniture components.

Interior Installation

- Mounting mirrors in bathrooms, residential interiors, and commercial premises (with mechanical support until fully cured).
- Sealing joints between mirrors, tiles, and walls.

Glazing Applications

- Top sealing of glazing systems.
- Sealing glass assemblies and constructions.

- Sealing lacquered and glazed surfaces.

General Workshop Applications

- Elastic bonding of compatible transparent plastics.
- Sealing applications in building and steel construction.
- Various applications requiring a neutral, transparent adhesive sealant.

TECHNICAL DATA & WORKING CONDITIONS

Parameter	Value
Base	Silicone – Alkoxy
Colour	Transparent
Consistency	Thixotropic Paste
Density	1.0–1.02 g/ml
Temperature Resistance (after curing)	–40 °C to +150 °C
Transport Temperature Resistance	Down to –15 °C
Application Temperature	+5 °C to +40 °C
Approximate Yield from 280 ml Cartridge	11.6 m (joint size 4 × 6 mm)

SURFACE PREPARATION

All surfaces must be clean, solid, and free from dust, loose particles, grease, oil, and other contaminants. Degrease glass, glazed surfaces, and metals using acetone or ethanol. Synthetic materials should be cleaned with a suitable detergent. Remove all residues of old sealants completely before application.

APPLICATION INSTRUCTIONS

1. Cut the tip of the cartridge and attach the application nozzle.
2. Cut the nozzle to the desired bead size (minimum 4 mm).

Mirror Bonding

- Apply the silicone in vertical strips on the back of the mirror.
- Do not apply in closed circles, as air circulation is required for proper curing.
- Press the mirror firmly onto the substrate immediately after application.

Important: Heavy mirrors must be mechanically supported using tape, brackets, or other fixing methods for at least 24 hours until the silicone has fully cured.

Sealing Applications

- Fill the joint evenly with sealant.
- Before skin formation occurs (typically within 5–30 minutes depending on conditions), smooth the joint using a spatula moistened with soapy water.

Recommended joint dimensions:

- Minimum joint width: 4 mm
- Maximum joint width: 25 mm
- Recommended width-to-depth ratio: 2:1

LIMITATIONS

Not suitable for:

- Permanently submerged joints.
- Aquariums.
- Applications involving continuous water exposure.
- PMMA, PE, PP, PC, ABS, PTFE (Teflon®), bituminous substrates, or wax-coated surfaces.

MAINTENANCE

For maximum service life, sealed joints should be cleaned only with neutral or alcohol-based cleaning agents.

CLEANING

Uncured silicone should be removed immediately using **Hraniclean 01**. Cured material can only be removed mechanically.

Wash hands thoroughly with soap and water after use. The use of a restorative hand cream is recommended.

SAFETY PRECAUTIONS

- Ensure adequate ventilation during application and curing.
- Avoid contact with eyes and skin.
- Keep out of reach of children.
- Refer to the Safety Data Sheet (SDS) for detailed health and safety information.

STORAGE

Store in the original, unopened packaging in a dry location.

Storage temperature: **+5 °C to +25 °C.**

Shelf life: **12 months from the date of manufacture.**