

Shieldflex NS150

Neutral Cure Silicone Sealant



Description

Shieldflex NS150 is a single-component, non-sag, neutral-cure silicone rubber sealant, cures with atmospheric moisture to form a soft, durable elastic seal.

Uses

- Suitable for general sealing purposes in construction, plumbing, and other applications.
- Sealing and joining for mortar, concrete, plaster, bricks, natural stones, glass, aluminum, tiles, porcelain, non-porous glazed ceramics, plastics, and varnished or painted wood.
- Sealing windows and door frames.
- Suitable for powder-coated aluminum frames.
- Can be used for vertical and horizontal applications.
- Indoor and outdoor applications.

Characteristics / Advantages

- Easy to apply.
- Durable and elastic.
- Non-sagging properties.
- Excellent adhesion to substrates without the use of primer.
- Excellent adhesion to various substrates.
- Non-corrosive to metals.
- Low odor.
- Excellent tooling characteristics.

Packaging

Shieldflex NS150 is supplied in 280 ml cartridges.

Shelf Life and Storage

Shieldflex NS150 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Color	Grey, white, black, brown.
Density	~1.32 g/ml
Extrusion Rate (3 mm nozzle)	40 ml/min
Tack-free Time	25 – 30 minutes
Curing Rate	2 mm per day
Elongation at Break (DIN 53504)	450%
Tensile Strength (DIN 53504)	1.2 N/mm ²
Modulus (100%) (DIN 53504)	0.25 N/mm ²
Shore A Hardness	30 ± 2
Temperature Resistance	- 40 to 120 °C
Application Temperature	5 to 40 °C

Application Instructions

1. Surface Preparation

The substrate must be clean, dry, and free from dust, loose materials, surface contamination, and materials that may reduce bond or prevent adhesion.

2. Joint Design

Apply masking tape to areas adjacent to joints. Install backing (closed-cell polyethylene foam backer rod), spacers, or joint filler to ensure the correct width-to-depth ratio. Joint width should be between 4 and 40 mm.

Joints up to 12 mm width, the width to depth ratio is 1:1
Joints over 12 mm width, the width to depth ratio is 2:1

3. Application

Cut the nozzle to the desired bead size and insert the cartridge into a standard caulking gun. For a smooth seal, hold at a 45° angle and apply by pushing **Shieldflex NS150** ahead of the nozzle. Apply at temperatures between 5°C to 40°C. Ensure that **Shieldflex NS150** makes complete contact with the entire surface. Immediately tool the uncured surface of the sealant using a spatula or by hand.

4. Cleaning

Excess caulk should be cleaned off tools and surfaces while it is uncured using a wet cloth. Cured sealant can only be removed mechanically.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

Safety Instructions

Use in a well-ventilated area. Keep it away from children. Direct contact with uncured sealant may irritate eyes and skin. Overexposure to vapor may irritate the eyes, nose, and throat. Do not handle contact lenses with sealant on your hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.

Limitations

- **Shieldflex NS150** cannot be painted after curing.

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