LASICA NX316 — Neutral Silicone Sealant for Stainless Steel

LASICA NX316 is a one-component, neutral-curing, ready-to-use silicone elastomer specially designed for stainless steel. It cures quickly at room temperature in the presence of air moisture, releasing oxime, to give a flexible, strong and watertight seal with excellent adhesion. Thixotropic and medium-modulus, it is suited to weather sealing and bonding in construction and general industrial applications.

PACKAGING	SHELF LIFE	CURING SYSTEM	WORKING TEMP.
310 ml	**18 months**	**Neutral (oxime)**	**−40 → +150 °C**

CHARACTERISTICS / ADVANTAGES

- One component, neutral cure — releases oxime (low odour, non-corrosive to metals)
- Specially designed for stainless steel with excellent adhesion
- Thixotropic — non-flowing, holds the bead on vertical joints
- Medium modulus — flexible, durable, watertight joint
- Resists temperature variation from −40 °C to +150 °C
- Good primerless adhesion on glass, ceramics, steel, wood and polished aluminium
- Fast tack-free time — quick to put into service
- Available in translucent and colours

APPLICATION

- Caulking and sealing of stainless-steel windows and doors
- Sealing of aluminium alloy, sliding doors, glass and plastic-steel
- Sealing and bonding of cabinets, shower rooms and interior decoration
- General industrial sealing and bonding requirements

HOW TO USE

Joint faces must be clean, dry and free of dust, oil, grease, old sealant and any contaminant that may affect adhesion. Degrease surfaces with a solvent-soaked cloth, wipe with a clean cloth, and remove dust with oil-free compressed air. For most substrates no primer is required; on special substrates a prior test is recommended. Preheat the sealant above +5 °C before use.

1. Joint width should be twice the depth; consider the sealant movement capability and local regulations.
2. Install a backup material (closed-cell PE or open-cell PU foam) so the sealant bonds only to the two facing sides of the joint.
3. Apply between +5 °C and +40 °C in a continuous operation, eliminating all air pockets or voids.
4. Tool the bead with light pressure using a dry spatula before skin formation.
5. Excess uncured sealant is cleaned with a commercial solvent; cured sealant is removed by scraping (razor blade) or with a silicone remover.

LIMITATIONS

Do NOT use in the following cases:

- On copper and its alloys, or surfaces that may react with the oxime released during curing
- On materials that can bleed substances over time (migration of constituents)
- On frost, wet surfaces or enclosed/impenetrable places
- On materials contaminated with grease, plasticiser or other solvents
- For preparing specifications — contact our Sales Department for assistance

PRODUCT DATA

TYPICAL GENERAL CHARACTERISTICS	METHOD	VALUE
PRODUCT DATA (UNCURED)		
Density	GB/T 13477.2	**1.02 g/cm³**
Flow / sag	ASTM D-2202	**0 mm (non-sag)**
Extrusion rate	ASTM C603	**160 g/min**
Tack-free time	ASTM C679	**5 min**
Curing rate	GB/T 32369	**3 mm/day**
PRODUCT DATA (CURED) — AT 23 °C / 50% R.H.		
Hardness Shore A	ASTM D2240	**26**
Modulus at 100% extension	ASTM D412	**0.40 MPa**
Tensile strength	ASTM D412	**1.5 MPa**
Elongation at break	ASTM D412	**450 %**
Working temperature	—	**−40 → +150 °C**

PACKAGING

- Cartridge: **310 ml** — translucent or coloured

TRANSPORT & STORAGE

- Transport: keep the sealed product away from moisture, sun and high temperature; avoid collisions.
- Storage: keep sealed in a cool, dry place below +30 °C in its original unopened packaging.
- Shelf life: **18 months** from date of manufacture (sealed product). Use quickly after opening.

SAFETY

During curing, oxime is released. Do not inhale these vapours for long periods or in high concentration; ensure good ventilation. In case of contact of uncured silicone with eyes or mucous membranes, rinse thoroughly with water. Refer to the Safety Data Sheet (SDS).

STORAGE

Comply with the storage instructions and expiry date marked on the packaging. Beyond this date, the product is no longer guaranteed to meet specifications and its properties must be checked before use.

The information in this technical data sheet is given in good faith based on our current knowledge; it is indicative and not binding. It cannot replace the preliminary tests that alone ensure a product's suitability for a given use. The user is responsible for verifying suitability and for compliance with local regulations. LASICA accepts no liability for any improper use.