

930NX

Alkoxy Neutral Silicone Construction

1 - Description

Akfix 930NX Alkoxy Neutral Silicone Construction is a one-component, neutral-curing (alkoxy) silicone elastomer designed for general purpose sealing and bonding. It cures at room temperature in the presence of atmospheric moisture to form a durable, flexible, and low-modulus seal, making it ideal for weatherproofing and joint sealing tasks.

2 - Properties

- Ease to apply,
- Cures to a durable, flexible silicone elastomer,
- Non-corrosive to sensitive surfaces,
- Low shrinkage and good movement capability,
- Low odor during application,
- Excellent long-term adhesion and sealing performance,
- Excellent weatherability, resistant to ozone, UV radiation and environmental pollutants,
- Withstands extreme temperatures from -40°C to +150°C.

3 – Application Areas

- General purpose sealing and bonding,
- Caulking and sealing window and door frames, siding, trim, skylights, gutters, vents and pipes,
- Sealing to some plastics and vinyls
- Expansion joints for façade panels, curtain wall joint,
- Boat, caravan and camping-car maintenance

4 – Product Information

Packaging	300 ml (Plastic Cartridge), 600 ml (Sausage)
Shelf Life	12 months
Storage Conditions	Away from direct sunlight and moisture, between +5 °C and +30 °C
Color	Translucent, white, natural, black, grey, brown

5 – Directions for Use

Surface preparation and sealant application;

- A. Cleaning and joint preparation:** Substrates must be sound quality, clean, dry and free of dust, grease, rust and other contaminants which may affect the adhesion. Non-porous surfaces (such as aluminium, glass, etc.) must be free of any coatings and should be cleaned with a suitable solvent and thoroughly dried with a clean cloth. Porous substrates (such as concrete, brickwork, etc.) must be mechanically cleaned from loose particles or residues with a jet of compressed air, sandpaper or hard brush. Mask off joint edges with self-adhesive tape as protection from contamination.
- B. Backing material:** Use a polyethylene bond breaker tape or backer rod to adjust the joint depth to proper width/depth ratio and to avoid three side adhesion which restrict the movement capability of the sealant. Backer rod must be at least wider 25% than the joint width.
- C. Sealant application:** Recommended application and surface temperatures: +5°C and +40°C. Cut nozzle to obtain desired bead size. Apply the sealant as evenly as possible by using professional caulking gun.
- D. Tooling and finishing:** Tool the joint surface with a smoothing tool ensuring the sealant a full contact to the sides and backup material into the joint before skin formation. Remove the masking tapes immediately after smoothing over the surface of the sealant.
- E. Cleaning:** Uncured product may be easily removed with damp sponge. Cured product must be removed mechanically. Hands can be cleaned with warm water and soap.

6 – Technical Data

Before Curing	Method /Condition	Value
Basis		: Silicone Polymer (Alkoxy)
Curing System		: Moisture Curing
Consistency / Sagging	ISO 7390	: Thixotropic Paste / 0 mm
Density		: 1.01± 0,03 g/ml (Translucent) : 1.50± 0,03 g/ml (Other colors)
Skin Formation Time	23 °C and 50% R.H	: 5 - 10 min (Translucent) : 20 - 35 min (Other colors)
Curing Rate	23 °C and 50% R.H	: min. 2 mm/day
Shore A hardness	ISO 868	: 17 - 25 (Translucent) : 25 - 35 (Other Colors)
Elastic Recovery	ISO 7389	: ≥70%
Loss of Volume	ISO 10563	: ≤10%
Movement capability	ISO 9046	: 25%
Tensile Strength		: 1.00 - 2.00 MPa
Elongation at break	ISO 37	: >500%
Tensile strength	ISO8339	: ≤0.4 MPa

Elongation at break	: $\geq 200\%$
Service Temperature	: Between -40°C and +150°C
Application Temperature	: Between +5°C and +40°C

7 – Approvals and Certificates

Meets or exceeds the requirements of the following specifications:

- Conforms to EN 15651-1: F-EXT-INT-CC (Class 25 LM)
- Conforms to EN 15651-2: G-CC (Class 25 LM)
- Conforms to the requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.

8 – Remarks & Restrictions

- Do not apply at temperatures below -10 °C or when substrate surface temperatures exceed +50 °C.
- Must not be used in the manufacture of aquariums.
- Must not be used for food contact applications.
- Can not be overpainted.

9 – Safety

Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Store in a well-ventilated place. Keep cool. Check SDS guidelines for disposal and further information concerning safety.

10 – Disclaimer

The technical data contained here in is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.