

Sealflex N

High-performance, single-component, elastic polyurethane adhesive sealant



Drykos® **Sealflex-N** is a single-component, moisture-curing polyurethane adhesive sealant with a medium/high elastic modulus, designed for elastic bonding and sealing applications in civil, industrial, and infrastructural sectors. The product cures by reacting with atmospheric moisture to form a permanently elastic material, characterized by high adhesion to major construction materials, excellent mechanical strength, and long-term durability. Thanks to its high thixotropy and ability to compensate for substrate irregularities, it allows for flexible structural bonding and waterproof sealing, while ensuring resistance to weathering, UV rays, and aging.

CHARACTERISTICS

Main characteristics

- High adhesion to major construction materials
- Fast curing through reaction with moisture
- Permanently elastic behavior
- High tensile and tear strength
- Ability to absorb movements (~ 25%)
- High thixotropy (non-sag on vertical surfaces)
- Excellent resistance to aging, UV, and weathering
- Good chemical and environmental resistance
- Reduction of vibrations and stresses
- Paintable once fully cured

Fields of use

- Sealing of expansion and construction joints
- Bonding of prefabricated elements, thresholds, windowsills, and panels
- Sealing between structural and cladding elements
- Joints on flooring, terraces, and roofs
- Applications on concrete, stone, ceramics, wood, metal, and brick
- Sheet metal work, roofing, and building finishes
- Fixing of waterstops and hydro-expansive profiles



SPECIFICHE TECNICHE

Packaging

300 ml cartridge - Box of 12 cartridges

600 ml cartridge - Box of 6 cartridges

Color

Gray.

Appearance

Thixotropic paste.

Shelf life

12 months from production date.

Storage conditions

Store correctly in the original, sealed, and intact packaging, protected from moisture and direct sunlight, at temperatures between +5°C and +35°C.

APPLICATION DATA

Theoretical consumption

Actual consumption varies depending on joint geometry, substrate roughness, and application methods.

Coverage

For 300 ml cartridge: Ø 5 mm → ~ 15 linear m; Ø 6 mm → ~ 10–11 linear m; Ø 8 mm → ~ 6 linear m; Ø 10 mm → ~ 3.5–4 linear m

Application temperature

Minimum +5°C | Maximum +40°C

APPLICATION INFO

Substrate preparation

Substrates must be sound, cohesive, clean, and dry, free of dust, grease, oils, cement laitance, or other contaminants that could compromise adhesion. For joints, it is recommended to prepare a suitable joint backing made of compressible material (e.g., expanded polyethylene) to control the depth and geometry of the seal. On particularly absorbent or critical substrates, the use of specific primers is recommended. Do not apply on non-adherent substrates such as polyethylene (PE), polypropylene (PP), PTFE, plasticized PVC, or bituminous materials, nor in conditions of permanent immersion in water.

Product preparation

Drykos® **Sealflex-N** is ready to use and does not require mixing. Before application, insert the cartridge or sausage into the appropriate caulking gun and cut the nozzle according to the desired bead section. For proper workability, it is recommended to use the product at room temperature.



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Application

Apply Drykos® **Sealflex-N** using a manual or pneumatic gun, extruding the material continuously into the joint or onto the surfaces to be bonded. For sealing, apply the product in a continuous bead and then smooth the surface before skin formation to ensure proper adhesion to the joint edges and a uniform finish.

For bonding, apply the product in beads or dots and join the elements, applying adequate pressure to achieve uniform distribution of the material.

The product has a skin formation time of approximately 45–60 minutes and progressive curing depending on environmental conditions (~ 3–4 mm/24 h).

Tool cleaning

Tools used for application must be cleaned immediately after use with suitable solvents (e.g., acetone or nitro thinner). Uncured product can be easily removed, while once cured, it can only be removed mechanically. Prompt cleaning is recommended to prevent the material from hardening on the tools.

Other indications

- Apply to clean, dry substrates free of contaminants.
- Do not use on non-adherent materials (PE, PP, PTFE, plasticized PVC, bitumen).
- Not suitable for continuous immersion in water.
- Verify adhesion and compatibility on special substrates beforehand.
- Do not apply at temperatures below +5°C or above +40°C.
- Avoid application in the presence of condensation or damp substrates.
- Respect correct joint geometry (depth ~ half the width).
- For anything not covered, contact Technical Support at +39 0171 1874992 or write to info@drykos.com

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Specific gravity			1.3 kg/L
Operating temperature			-20°C / +80°C
Movement capacity			~ 25%
Curing speed			3.4 mm / 24h
Skin formation time			~ 45 minutes
Shore A hardness	ISO 868		30-40
Tensile strength	ASTM D412		2.2 MPa
Breaking strength	ISO 8339		0.75 MPa
Sag resistance at +23°C	ISO 7390		≤ 3 mm
Sag resistance at +50°C	ISO 7390		≤ 3 mm
100% Modulus	ISO 8339		0.55-0.65 MPa
Elongation at break	ISO 8339		> 200%
Elongation at break	ASTM D412		600%
Elastic recovery	ISO 7389		> 70%



Characteristic	Test method	Standard requirements	Performance
Shrinkage	ISO 10563		≤ 10%

ENVIRONMENT AND SAFETY

VOC

Very Low Emission (very low emissions of volatile organic compounds). Solvent content: ≤ 5 g/kg.

Safety

For information and advice on safety, handling, storage, and disposal, users of the product must refer to the most recent version of the Safety Data Sheet, which provides information on the physical, ecological, and toxicological characteristics of the product. If necessary, request the updated Safety Data Sheet by contacting Customer Service at +39 0171 1874992 or writing to info@drykos.com. Product compliant with the requirements of Regulation (EC) No. 1907/2006 (REACH) and Annex XVII, entry 47 and subsequent amendments and additions.

Use

Product for professional use.

WARRANTIES AND LEGAL NOTES

Should the product be defective, the liability of Drykos S.r.l. shall be limited solely to its replacement. The information and instructions in this technical data sheet regarding the application and end-use of the products are provided in good faith and reflect current scientific and technical knowledge; however, they do not constitute any guarantee or assumption of liability regarding the final outcome of the work involving their use. Given the variety of operating conditions and external factors beyond the control of Drykos S.r.l. during execution, it is the user's responsibility to verify the product's suitability for the specific application, assuming all risks and liabilities. Drykos S.r.l. reserves the right to modify the properties of its products at any time. Always refer to the most recent version of the product's technical data sheet. This edition cancels and replaces all previous versions. The latest updated technical data sheets are available on our portal at www.drykos.com.



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