



Sealflex S

High-modulus epoxy-polyurethane sealant with high chemical and mechanical resistance, for sealing expansion and contraction joints

Drykos® **Sealflex S** is a two-component thixotropic elastomeric sealant based on epoxy-polyurethane, developed for high-performance sealing of joints in concrete structures subject to mechanical stress, traffic, and chemical aggression. Once mixed and hardened, the product forms an elastic material with high mechanical and chemical resistance, characterized by excellent adhesion to substrates, high durability, and dimensional stability over time. Thanks to the combination of elasticity and resistance, Drykos® **Sealflex S** is particularly suitable for industrial and infrastructural applications where reliable sealing is required even under severe conditions, including exposure to oils, hydrocarbons, detergents, and dynamic load cycles.

CHARACTERISTICS

Main characteristics

- High adhesion to concrete and construction substrates
- High mechanical and wear resistance
- Suitable for joints subject to traffic
- Good elasticity and movement absorption capacity (~ 25%)
- High chemical resistance (oils, hydrocarbons, detergents)
- Excellent resistance to water and weathering
- Controlled shrinkage and dimensional stability
- Applicable vertically thanks to its thixotropy
- Suitable for creating coved fillets

Fields of use

- Elastic sealing of expansion, contraction, and construction joints
- Industrial flooring subject to medium-heavy traffic
- Parking lots, airports, logistics areas, and warehouses
- Concrete infrastructure and civil works
- Hydraulic works, treatment plants, and pipelines
- Joints in precast elements, walls, and panels
- Floor-to-wall connections (coved fillets)
- Sealing between concrete, steel, and composite materials



SPECIFICHE TECNICHE

Packaging

7.5 kg kit: component A 5 kg + component B 2.5 kg

15 kg kit: component A 10 kg + component B 5 kg

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, frost, and direct sunlight, at temperatures between +5°C and +35°C.

APPLICATION DATA

Theoretical consumption

1.3-1.35 kg per dm³ of volume to be filled

Thinner

Epoxy.

Application temperature

Minimum +10°C | Maximum +35°C

APPLICATION INFO

Substrate preparation

Substrates must be sound, compact, clean, and dry, free of dust, oils, grease, loose parts, or contaminants that could compromise adhesion. Joints must be previously cleaned and emptied of any loose material by vacuuming or washing. It is necessary to provide a suitable joint backer rod made of compressible material to control the depth and geometry of the seal. On special substrates (metals, ceramics, etc.), the use of specific primers is recommended to improve adhesion.

Product preparation

Drykos® **Sealflex S** is a two-component product to be mixed in the specified ratio. Before use, homogenize the components separately, then add component B to component A and mix thoroughly using a low-speed stirrer until a uniform, streak-free mixture is obtained. It is essential to use the entire content of the components to ensure the correct mixing ratio and avoid performance alterations.



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Application

After properly preparing the substrate and the joint, Drykos® **Sealflex S** must be applied after complete mixing of the two components until a homogeneous and streak-free mixture is obtained. The product is then applied using a spatula or sealant gun, completely filling the joint section and avoiding air entrapment. It is essential to compact the material against the joint walls to ensure perfect adhesion and continuity of the seal.

The surface must then be smoothed to obtain a uniform finish and ensure the correct joint geometry. For visible joints, masking tape can be used to define the application area.

In the case of combined systems with Drykos® **Flexstrip 250**, Drykos® **Sealflex S** is applied to the sides of the joint with adequate thickness; the strip is then positioned on the fresh product and pressed uniformly until complete contact with the substrate is achieved. Subsequently, the edges are covered with additional product, creating a continuous, elastic, and highly waterproof system.

The workability time varies depending on the temperature, while complete hardening occurs progressively over approximately 7 days.

Tool cleaning

To clean tools and equipment, use thinners suitable for epoxy resins. Unhardened material can be removed with solvent, while after hardening it can only be removed mechanically.

Other indications

- Do not apply to inadequately prepared substrates
- Do not apply in the presence of standing water or excessive humidity
- Apply at temperatures between +10°C and +35°C
- Use the entire kit to ensure the correct mixing ratio
- Protect the product from water and weathering for the first 24 hours
- Do not use on bituminous substrates or incompatible materials
- Check compatibility with any coatings or paints
- 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
Catalysis ratio			100 : 50
Density			1.37 ± 0.05 kg/L
Dry residue			99 ± 1% by volume
Touch dry			~ 2 hours
Dust free			~ 12 hours
Workability time at 20°C			~ 60 minutes
Fully cured			~ 7 days
Viscosity	ASTM D2196		45,000 ± 1,000 mPa·s
Shore A hardness	EN ISO 868		
Working elongation	EN ISO 11600		25%
Elastic recovery			> 80%
Elongation at break			> 90%



Characteristic	Test method	Standard requirements	Performance
Water resistance			Excellent
Aging resistance			Excellent
Weather resistance			Excellent
Resistance to chemicals, acids, hydrocarbons			Good
Resistance to soaps and detergents			Excellent
Solvent resistance			Limited

ENVIRONMENT AND SAFETY

VOC

Solvent Free.

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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