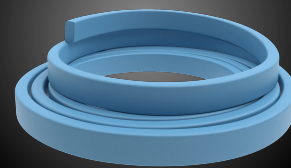


Jointseal Tape SW

Hydro-expansive waterstop joint based on polyethylene, butyl rubber, and polymeric binders for applications in contact with seawater or organic leachates



Drykos® **Jointseal Tape SW** is a preformed hydro-expansive waterstop joint designed for sealing construction joints in concrete structures, masonry, and foundations, even under particularly aggressive conditions or high hydrostatic pressures. The product is formulated with polyethylene, butyl rubber, resins, and elastomeric binders. Its specific chemical composition provides the material with high stability and durability over time, ensuring consistent performance even after repeated hydration and dehydration cycles.

Due to its technical and mechanical characteristics, Drykos® **Jointseal Tape SW** exhibits high strength, elasticity, and dimensional stability, making it suitable for applications under severe conditions.

Upon contact with water, Drykos® **Jointseal Tape SW** initiates a gradual and controlled expansion process. The swelling kinetics are designed to allow fresh concrete to complete the setting and curing phase without undergoing unwanted deformations or stresses. Once confined within the joint, the material expands to adapt to the available volume, compensating for voids and surface irregularities and ensuring continuous, hermetic sealing. The elastomeric structure enables the product to maintain its expansion capacity unchanged even after numerous alternating hydration and dehydration cycles, ensuring long-term reliability.

The high hydraulic seal, certified up to a hydrostatic pressure of approximately 12 bar, makes Drykos® **Jointseal Tape SW** particularly suitable for structures subject to high water pressures.

It is supplied with a rectangular cross-section of 10 × 20 mm in 10 m rolls.

CHARACTERISTICS

Main characteristics

- High mechanical strength and elasticity
- Gradual and controlled expansion upon contact with water
- Performance stability even after repeated hydration/dehydration cycles
- Composition remains unaltered over time
- High hydraulic seal up to 12 bar (≈ 120 m water column)

Fields of use

- Sealing of construction joints in concrete structures subject to constant presence or significant pressure of water
- Suitable for use in contact with seawater
- Horizontal and vertical construction joints
- Foundations and slabs in the presence of groundwater
- Retaining walls and underground structures
- Tanks, reservoirs, and hydraulic structures
- Tunnels and underground infrastructure
- Wastewater treatment plants and structures exposed to wastewater
- Structures subject to high hydrostatic pressures (up to 12 bar)
- Application in environments with aggressive conditions

SPECIFICHE TECNICHE

Packaging

Box of 6 rolls × 10 m

Color

Blue.

Appearance

Compact cord.

Shelf life

12 months from production date.

Storage conditions

Store properly in the original, sealed, intact packaging, protected from moisture, frost, and direct sunlight exposure, preferably at temperatures between +5°C and +35°C. Unsuitable storage conditions may compromise the rheological performance of the material.

APPLICATION DATA

Theoretical consumption

1 m per linear meter

Application temperature

Minimum -20°C | Maximum +50°C

APPLICATION INFO

Substrate preparation

At the time of application, the concrete substrate must be solid, compact, and free of loose particles.

Before installation, it is necessary to remove cement laitance, dust, construction debris, and any residues from casting operations to ensure proper adhesion of the cord to the substrate.

Drykos® **Jointseal Tape SW** can also be applied to slightly damp surfaces, provided there is no standing water or active runoff.



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Application

Drykos® **Jointseal Tape SW** must be positioned manually along the planned construction joint line, ensuring proper continuity of the cord and its perfect adhesion to the substrate.

Fixing can be performed by bonding with the specific cartridge adhesive Drykos® **Sealflex N** or by mechanical nailing using steel nails with washers, with one fixing point approximately every 20–25 cm.

Joints between different cord sections must be made by simply butting the ends for a minimum length of 5 cm, avoiding overlaps that could compromise the regularity of expansion.

Under particularly demanding application conditions or on irregular surfaces, the dedicated containment cage Drykos® **Jointnet** is available, made of steel wire with a 13 × 13 mm square mesh, supplied in 1 m profiles. The cage must be fixed to the substrate by nailing, ensuring effective confinement of the cord.

Correct positioning of the waterstop must ensure a minimum concrete cover of 8 cm on both sides, a condition necessary to contain and counteract the expansive action generated by bentonite hydration. Similarly, any formwork spacers must be placed at a distance of no less than 8 cm from the bentonite cord.

Drykos® **Jointseal Tape SW** is treated with a surface retardant that delays the onset of expansion for approximately 48 hours, even in the presence of light precipitation. This characteristic reduces the risk of premature expansion before concrete casting.

Other indications

- However, it is recommended to carefully verify the condition of the cord before concrete casting in cases of: intense weather events with prolonged submersion of the material; exposure to atmospheric agents for several days before casting; environments characterized by high humidity, persistent fog, or standing water in direct contact with the cord
- Do not apply to structures immersed in water at the time of installation. Any free water present on the surface must be removed beforehand
- The product must not be used on surfaces heavily contaminated by aggressive substances such as acids or solvents. Under such conditions, thorough cleaning of the substrate is required and application suitability must be assessed in advance
- Do not install the cord without adequate confinement
- Not suitable for structural joints or expansion joints
- Reinforcement spacers must be placed at an adequate distance from the cord to avoid interfering with proper material expansion
- 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
Density	EN ISO 1183		1.2 kg/dm ³
Shore A hardness	EN ISO 868		40
Elongation at break	EN ISO 527		≥ 600%
Tensile strength	EN ISO 527		≥ 3.5 N/mm ²
Expansion in deionized water	EAD 320008-01-0605		≥ 3000%
Expansion in salt water	EAD 320008-01-0605		≥ 200%
Water penetration depth under pressure	EN 12390-8		0 mm after 72 h at 12 bar
Hydrostatic pressure resistance			12 bar



ENVIRONMENT AND SAFETY

Safety

The product is classified as an article and, in accordance with Regulation (EC) No. 1907/2006 (REACH), does not require a Safety Data Sheet. During handling and use operations, however, the use of appropriate personal protective equipment, such as gloves and safety glasses, is recommended, along with compliance with safety procedures established in the workplace.

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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