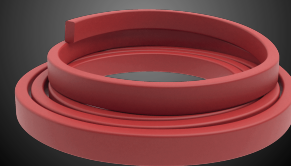


Jointseal Tape R

Hydro-expansive waterstop joint based on polyethylene, butyl rubber, and polymer binders



Drykos® **Jointseal Tape R** is a preformed hydro-expansive waterstop joint designed for sealing construction joints and cold joints in concrete structures, even in the presence of significant hydrostatic pressure. The product is formulated with polyethylene, butyl rubber, resins, and elastomeric binders. Its specific chemical composition ensures stability and durability over time, providing consistent performance even under varying environmental conditions.

Drykos® **Jointseal Tape R** features high mechanical and elastic properties; upon contact with water, it initiates a gradual and controlled expansion process. The swelling kinetics are designed to allow fresh concrete to complete its setting phase without undergoing unwanted deformations or stresses. Even after numerous hydration and dehydration cycles, the material maintains its volumetric increase capacity, ensuring long-term sealing continuity. The product ensures high hydraulic tightness, resistant to hydrostatic pressure up to approximately 12 bar (equivalent to a 120 m water column).

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

CHARACTERISTICS

Main characteristics

- High mechanical resistance and elasticity
- Gradual and controlled expansion upon contact with water
- Performance stability even after repeated hydration/dehydration cycles
- Long-term composition stability
- High hydraulic tightness up to 12 bar ($\approx$ 120 m water column)

Fields of use

- Sealing of construction joints in concrete structures subject to constant presence or significant pressure of water
- Horizontal and vertical construction joints
- Foundations and slabs in the presence of groundwater
- Retaining walls and underground structures
- Tanks, reservoirs, and hydraulic works
- Tunnels and underground infrastructure
- Structures subject to high hydrostatic pressures (up to 12 bar)



SPECIFICHE TECNICHE

Packaging

Box of 6 reels x 10 m

Color

Red.

Appearance

Compact strip.

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, 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 parts. Before installation, it is necessary to remove cement laitance, dust, processing debris, and any residues from casting operations to ensure proper adhesion of the strip to the substrate. Drykos® **Jointseal Tape R** can also be applied to slightly damp surfaces, provided there is no standing water or ongoing washout phenomena.

Application

Drykos® **Jointseal Tape R** must be positioned manually along the intended line of the construction joint, ensuring the continuity of the strip and its perfect adhesion to the substrate. Fixing can be carried out by bonding with the specific Drykos® **Sealflex N** adhesive cartridge or via mechanical nailing, using steel nails equipped with washers, with a fixing point approximately every 20–25 cm. Joints between different sections of the strip must be made by simply butting the ends together for a minimum length of 5 cm, avoiding overlaps that could compromise the regularity of the expansion. In particularly demanding application conditions or in the presence of irregular surfaces, the specific Drykos® **Jointnet** containment cage 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 strip. Correct positioning of the waterstop must ensure a minimum concrete cover of 8 cm on both sides, a necessary condition to contain and counteract the expansive action generated by the hydration of the bentonite. Similarly, any formwork spacers must be placed at a distance of no less than 8 cm from the bentonite strip. Drykos® **Jointseal Tape R** undergoes a surface treatment with a retarding function, which allows the initiation of expansion to be delayed for approximately 48 hours, even in the presence of light rainfall. This feature reduces the risk of premature expansion before casting.



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Other indications

- However, it is recommended to carefully check the condition of the strip before pouring concrete 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 strip
- 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. In such conditions, it is necessary to thoroughly clean the substrate and evaluate application suitability in advance
- Do not install the strip in the absence of adequate confinement.
- It is not suitable for creating structural joints or expansion joints
- Reinforcement spacers must be placed at an adequate distance from the strip so as not to interfere with the correct expansion of the material
- 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		≥ 700%
Tensile strength	EN ISO 527		≥ 3.5 N/mm ²
Expansion in deionized water	EAD 320008-01-0605		≥ 1800%
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 the preparation of a Safety Data Sheet. During handling and use, it is nevertheless recommended to use appropriate personal protective equipment, such as gloves and protective goggles, and to comply with the safety procedures established at the workplace.

Use

Product for professional use.



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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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