

Jointseal T

Single-component hydro-expansive polyurethane sealant suitable for use as a waterstop for waterproofing joints and construction details



Drykos® **Jointseal T** is a single-component hydro-expansive polyurethane sealant in extrudable thixotropic paste form, designed for hermetic sealing of joints, discontinuities, and construction details in concrete structures. The product cures through reaction with ambient moisture or moisture present in the substrate, forming an elastic and adhesive sealant that, upon contact with water, activates a controlled expansion process capable of ensuring hydraulic sealing even under pressure.

Drykos® **Jointseal T** maintains its elastic properties over time and, under wet-dry cycling conditions, is capable of repeatedly expanding and contracting without losing sealing effectiveness.

Thanks to its high adhesion to multiple substrates and ease of application using a gun, it represents an ideal solution for complex or difficult-to-access applications where the use of traditional waterstops proves challenging.

CHARACTERISTICS

Main characteristics

- Seals and bonds simultaneously
- Active expansion upon contact with water
- High adhesion to concrete, metal, plastic, and common substrates
- Applicable even on slightly damp surfaces
- Thixotropic behavior: non-sagging
- Progressive and controlled expansion over time
- Resistance to hydrostatic pressures up to approximately 5 bar
- Maintains elasticity and sealing capacity over time
- Returns to initial dimensions in the absence of water
- Easy application with standard cartridge guns

Fields of use

- Waterproof sealing of underground structures, tanks, manholes, and tunnels subject to water presence, even under pressure.
- Waterproof sealing of construction joints
- Sealing of cracks, cavities, and discontinuities
- Pipe and system penetrations
- Connections between precast elements
- Sealing of starter bars and construction details
- Joints between concrete and other materials
- Installation and fixing of bentonite or hydro-expansive waterstop strips



SPECIFICHE TECNICHE

Packaging

300 cc cartridge - Box of 12 pieces

Color

Red.

Appearance

Thixotropic paste.

Shelf life

12 months from production date.

Storage conditions

Store in original intact and sealed packaging, in a cool, dry, and adequately ventilated environment, protected from moisture, frost, and direct sunlight exposure. The product must be stored at temperatures between +10°C and +25°C, avoiding thermal shocks and extreme environmental conditions that may compromise its rheological and application performance.

APPLICATION DATA

Theoretical consumption

Depending on joint geometry and applied bead size. Indicatively: 0.15-0.3 cartridges per linear meter.

Coverage

~ 3-7 linear meters per 300 ml cartridge (depending on applied cross-section).

Thinner

Polyurethane or nitro.

Application temperature

Minimum +5°C | Maximum +40°C

APPLICATION INFO

Substrate preparation

Application surfaces must be clean, sound, and free from dust, grease, oils, loose particles, or contaminants that may compromise sealant adhesion. In the presence of particularly smooth or release agent-treated substrates, mechanical preparation by abrasion or sandblasting is necessary, followed by thorough removal of residual dust. The product can be applied even on slightly damp surfaces, provided there is no free water on the surface.

Product preparation

Drykos® **Jointseal T** is supplied as a ready-to-use single-component product and requires no mixing or addition of components. Before application, it is recommended to verify cartridge integrity and properly prepare the extrusion nozzle, cutting it according to the desired bead cross-section, generally not less than 8 mm, to ensure adequate sealing and hydro-expansive capacity.

To facilitate extrusion, especially in low-temperature conditions, it is advisable to bring the product to room temperature before use. The product must be applied directly using a dispensing gun, ensuring continuous and regular bead extrusion.



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Application

Drykos® **Jointseal T** is applied by extrusion with a standard cartridge gun, placing a continuous bead along the joint or area to be sealed. It is essential to ensure continuous contact between the product and the substrate, applying a sufficient quantity of material to compensate for any irregularities and completely fill the cavities to be sealed. To achieve effective sealing, the product must always be applied under confined conditions, providing coverage of at least 5 cm with thixotropic mortars such as Drykos® **Drymortar Tix**, Drykos® **Renov Tix** or flowable types such as Drykos® **Dryfill**, Drykos® **Renov Col**. The absence of confinement may compromise system effectiveness due to free expansion of the material.

In the case of construction joints, it is recommended to allow the product to cure before subsequent concrete placement and to protect it from washout or direct contact with water before complete curing.

Tool cleaning

Tools used for application must be cleaned immediately after use with suitable solvents, such as nitro thinner or solvents compatible with polyurethane products. Uncured product can be removed with cloths or absorbent paper, while once cured it can only be removed mechanically.

It is recommended to avoid material curing inside application equipment, ensuring prompt cleaning at the end of operations.

Other indications

- The product must be applied exclusively under confined expansion conditions.
- Do not use as an unconfined surface sealant (silicone type).
- Avoid application in the presence of free water or washout conditions.
- Protect the product before complete curing.
- Verify adhesion on special substrates in advance through preliminary testing.
- 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			1.35 kg/L
Shore A hardness	DIN 53505		40
Tack-free time			10 h
Dust-free			3-5 h
Tensile strength	DIN 53504		3.5 N/mm ²
Expansion capacity	DIN 52451		+25% at 24 hours
Expansion capacity	DIN 52451		+100% at 7 days



ENVIRONMENT AND SAFETY

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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