



PTB V PVC Joint

PVC waterstop for construction and expansion joints with central V-bulb

Drykos® **PTB V PVC Joint** is a high-quality preformed PVC waterstop, manufactured by extrusion from suitably plasticized thermoplastic vinyl resins, designed for waterproofing joints in concrete structures. The profile features a central V-shaped bulb, which allows it to absorb differential movements and deformations, making it suitable for construction joints as well as expansion and controlled cracking joints. The lateral fins ensure effective anchoring to the concrete, while the two integrated seats allow for the insertion of hydrophilic strips from the Drykos® **Jointseal Tape** line, creating a high-security combined sealing system. The material exhibits high resistance to aggressive chemical agents, groundwater, acid-alkaline solutions, and weathering, maintaining its mechanical and elastic characteristics over time even at low temperatures. Thanks to its high flexibility and durability, Drykos® **PTB V PVC Joint** is particularly suitable for applications in civil, industrial, and infrastructural works.

CHARACTERISTICS

Main characteristics

- High-quality extruded PVC profile
- Central V-bulb for structural movement absorption
- High elasticity even at low temperatures
- High tensile and deformation resistance
- Excellent hydraulic seal even under pressure
- Resistance to aggressive chemical agents (acids, alkalis, groundwater)
- Resistance to aging, UV rays, and weathering
- Dimensional stability and consistent performance over time
- Lateral fins for improved anchoring to concrete
- Designed for insertion of hydrophilic strips (combined system)
- Suitable for internal application within concrete pours
- Wide range of sizes to adapt to different joint types



Fields of use

- Expansion and contraction joints
- Structural and movement joints
- Construction joints
- Controlled cracking joints
- Slabs and foundations
- Tanks, reservoirs, and purification plants
- Dams and hydraulic works
- Tunnels and underground infrastructure
- Channels and containment works
- Retaining walls and diaphragms
- Civil and industrial constructions

SPECIFICHE TECNICHE

Packaging

W 250 mm - 20 m roll

Color

Black.

Appearance

Elastic PVC profile.

Shelf life

The product has no storage limitations if correctly stored.

Storage conditions

Store in original intact packaging, in a dry environment, protected from weathering and heat sources.

APPLICATION DATA

Theoretical consumption

1 m per linear meter of joint

Application temperature

Minimum -30 °C | Maximum +70 °C

APPLICATION INFO



DRYKOS S.r.l.

Piazza Marconi n. 7 12100 - Tarantasca (CN) - Italia

Tel. + 39 0171 1874992 | E-mail info@drykos.com | Web www.drykos.com

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Application

Drykos® **PTB V PVC Joint** is designed for internal installation within the concrete pour, with the profile inserted between two successive pours or at structural joints. Positioning must be carried out so that the central bulb is correctly placed in the joint area—specifically, between two distinct pours for construction joints and along the movement line for expansion joints.

The part of the profile intended to be embedded in the concrete must be firmly fixed to the reinforcement using specific metal clips or wire ties to prevent displacement during the pouring and vibration phases of the concrete. It is essential to ensure correct alignment of the profile and adequate concrete cover on both sides to guarantee the full effectiveness of the waterproofing system.

Joints between different lengths of waterstop must be made by heat welding, using appropriate tools and accessories, to ensure the hydraulic continuity of the system.

To further increase the security level of the seal, the system can be integrated with hydrophilic strips from the Drykos® **Jointseal Tape** line housed in the specific seats of the profile, creating a double barrier against infiltration.

Drykos® **PTB V PVC Joint** section:



Other indications

- The product must be installed exclusively by qualified personnel and according to good practice for PVC waterstop installation.
- Ensure the correct positioning of the central bulb at the joint, avoiding misalignments that could compromise the hydraulic seal.
- The profile must be adequately fixed to the reinforcement to prevent displacement during the pouring and vibration phases of the concrete.
- Ensure sufficient concrete cover on both sides of the waterstop, according to project specifications.
- Joints between profiles must be performed by heat welding, using suitable equipment, to ensure the continuity of the system.
- Avoid damaging the profile during handling and installation (cuts, excessive bending, crushing).
- Do not use the product in the presence of surface contaminants or conditions that could compromise adhesion and anchoring to the concrete.
- In the presence of particularly aggressive chemical agents or specific operating conditions, verify the suitability of the material in advance.
- 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
Shore A Hardness	ISO 868		75 ± 3
Specific gravity	ISO 1183		1.38 ± 0.02 kg/L
Tensile strength	ISO 527		12 ± 2 N/mm2
Elongation at break	ISO 527		300 ± 3%
Low temperature flexibility	ISO 458-2		-30 °C
Flammability	UL94		V-0

Characteristic	Test method	Standard requirements	Performance
Oil resistance			Normal resistance in case of temporary contact; not suitable for long-term immersion

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 operations, however, the use of appropriate personal protective equipment, such as gloves and safety glasses, is recommended, along with compliance with the 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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