



Jointsteel BW

Galvanized steel waterstop with eyelets, coated with adhesive butyl rubber, for the watertight sealing of horizontal construction joints

Drykos® **Jointsteel BW** is a metal waterstop system designed to ensure the watertight sealing of construction joints in water-impermeable reinforced concrete structures.

Drykos® **Jointsteel BW** consists of a galvanized steel sheet, equipped with shaped and foldable eyelets, with a height of 150 mm and a thickness of 0.6 mm. The sheet is coated on both sides with a special adhesive butyl rubber, protected by a centrally pre-cut release film, which facilitates installation and ensures high adhesion to the concrete. The special flexible coating adheres closely to the concrete, creating a continuous adhesive-type waterproof barrier that prevents water circulation along the joint.

The system is suitable for the reliable sealing of construction joints and controlled crack joints, both in cast-in-place concrete structures and in combination with precast wall elements, with particular reference to the horizontal joint between the foundation slab and the rising retaining walls.

Drykos® **Jointsteel BW** is also suitable for applications in the presence of pressurized water, guaranteeing the hydraulic seal of the joint up to a maximum persistent hydrostatic pressure of 2 bar, equivalent to approximately 20 m of water column.

CHARACTERISTICS

Main characteristics

- Guarantees the watertight sealing of construction joints in reinforced concrete structures
- Ensures high hydraulic reliability even in the presence of pressurized water up to 2 bar
- Adhesive butyl rubber coating on both sides for perfect adhesion to concrete
- Centrally pre-cut protective film that facilitates and speeds up installation operations
- Shaped and foldable eyelets that promote mechanical anchoring to the casting
- High resistance and durability thanks to the galvanized steel sheet
- Simple and quick system to install, suitable for use on construction sites
- Suitable for applications in humid and potentially aggressive environments

Fields of use

- Construction joints in reinforced concrete structures
- Horizontal joints between foundation slabs and rising retaining walls
- Underground works and structures against the ground
- Tanks, technical rooms, and structures subject to hydrostatic pressure
- Civil, industrial, and infrastructural works
- Structures in the presence of groundwater or pressurized water

SPECIFICHE TECNICHE

Packaging

H 150 mm - 20 m box

Color

Steel.

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 +30 °C. At higher temperatures, the protective film may adhere excessively to the adhesive coating, causing difficulties in the correct installation of the product.

APPLICATION DATA

Theoretical consumption

1 m per linear meter

Application temperature

Minimum -10 °C | Maximum +40 °C

APPLICATION INFO

Substrate preparation

Adhesive surfaces must be clean and free of contaminants (dust, dirt, oils, or other agents) that could compromise the adhesion of the hydraulic seal device.

Product preparation

Before installation, remove the protective film from the coated surface intended for the first pour, leaving the film in place on the opposite side. The protective film must be removed immediately before pouring to preserve the adhesive characteristics of the coating.



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Application

Position Drykos® **Jointsteel BW** in line with the axis of the construction joint, particularly at the horizontal joint between the foundation slab and the rising wall, resting it on the upper reinforcement. Secure the sheet to the metal reinforcement by tying the eyelets or fixing brackets with wire, ensuring the stability of the system during the pouring phases.

Fixing must be carried out with a spacing of 30–40 cm using fixing brackets tied to the reinforcement.

At junction points, the sections of Drykos® **Jointsteel BW** must overlap by at least 5 cm. In the overlap area, remove the protective film, join the adhesive surfaces by applying uniform pressure over the entire area, and secure the junction using the specific Drykos® **Fixing Clip**.

At corner points, the sheet must be shaped following the course of the joint; it is recommended to perform the bending on a sharp edge to ensure the continuity of the waterproof seal. The embedding depth in the concrete must not be less than 3 cm and not more than 8 cm.

Drykos® **Jointsteel BW** must form a continuous circuit without discontinuities along the entire length of the joint. The protective film on the side of the second pour must remain in place as long as possible and be removed only immediately before the execution of the subsequent pour.

Other indications

- The waterstop should generally be positioned in the center of the construction joint or the crack control section
- The embedding depth in the concrete must be no less than 30 mm
- The minimum distance between the waterstop and the edge of the structural element must be at least 50 mm and in any case no less than three times the maximum size of the aggregate
- The waterstop must be fixed to the reinforcement as it must not move or float during the pour
- For correct installation of the complete waterproofing system, refer to the Drybox System® Application Protocol
- 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
Length			20 m
Height			150 mm
Sheet thickness			~ 0.6 mm
Special coating thickness			~ 0.15 mm
Total thickness			~ 1 mm
Watertightness under end-use conditions			Up to 20 m water column - Test pressure: 500 kPa
Adhesion strength as delivered			≥ 0.2 MPa
Adhesion strength after thermal aging			≥ 0.2 MPa
Deviation from as-delivered state			20% (no reduction in values)
Reaction to fire			Class E
Durability			Volatile compounds (weight loss): 3%



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 nonetheless 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.

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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