

# Clayseal 25.20 SW

Bentonite-rubber swelling joint, specific for usage with sea water



High performance hydro-expansive sealing waterstop for construction joints with safe hermetic seal for structures, masonry and foundations, made of a mixture of sodium bentonite, hydro-expansive rubber and special binding polymers ("hydrocarbon"), specifically designed to be used in contact with salt water or organic leachates. Clayseal 25.20 SW has a rectangular cross section of 25x20 mm, packed in rolls of 5 m each.

**CUSTOMS CODE:** 4005 9100

**COMPONENTS:** Single-component

**APPEARANCE:** Stripe

**AVAILABLE COLORS:** Red

**PACKAGING AND DIMENSIONS:** Box: 6 x (Roll 5 m) - Pallet: 48 x (Box 21 Kg)

## FEATURES AND BENEFITS

Clayseal 25.20 SW is a simple and easy to apply sodium bentonite waterstop; it does not require any special preparations of the media, pre-shaped seats etc. It is easily fixed by nailing and does not require any special protection. In contact with water (even salted or polluted), it increases its volume through the formation of a stable colloidal system that guarantees the permanent hermetic sealing of the connection; the initial expansion is delayed through a retardant coating with respect to the first contact with water, to avoid deformations in the initial hardening phase of the fresh concrete. The expansion of Clayseal 25.20 SW in salt water or water with leachate and pollutant content, is at least 180% (just under twice its initial volume). Potential expansion in case of contact with clean water could be significantly higher (even of the order of 1000%).

## FIELDS OF APPLICATION

Producing rigid construction joints (non-expanding) and safely and permanently hydraulic sealing connections in environments with salt water, sea water, organic leachate and pollutants of various kinds (for example landfills, biogas digesters, etc.).

## ALLOWED SUPPORTS

Concrete - Cement-based or lime-based mortars - Prefabricated concrete - Rock walls

## PREPARATION OF SUPPORTS

Prepare the smoothest and most planar laying surface, using Repar Tix to compensate for any inhomogeneity, and accurately remove crumbling, non-adhering, powdery parts.


## MODE OF USE

Apply by hand the waterstop in sodium bentonite Clayseal 25.20 SW in the provided position. The product should be secured with nails: a steel nail and a washer about every 20-25 cm. The sealing of joints between the waterstop beads is ensured by the simple approach of at least 10 cm and not by overlapping the ends. For particularly complex applications, is available the specific cage of steel wire Bentonet, with square mesh of 13x13 mm, in profiles of 1 meter each. The positioning must ensure a concrete covering of 10-12 cm in order to contain the expansive action generated by hydration. Although the product has a delayed expansion of 48h, it is not recommended for use in cases of earlier time-frames or with excessive humidity (for example in the presence of puddles).

## APPLICATION METHODS

Apply by hand - Hammer

## KEY FEATURES

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|--|--|
|  Density: 1.4-1.5 kg/dm <sup>3</sup> |  Hydroexpansive product: + 550 %  |
|  Shelf-life: 12 months               |  Temperature of use: -15 / +50 °C |

## TECHNICAL SPECIFICATIONS

ASTM D71  
Unit weight **0.83 kg/m**

Longitudinal elongation at break **60 %**

Sodium bentonite content **>75 %**

## CONSUMPTION

1.1 m/m: Use 1 metre of Clayseal 25.20 SW for each linear metre, being careful to place 5-10 cm of the product alongside the end/start roll points to guarantee the permanent water tightness of the system.

## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.



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**Total pages of this document: 3**

## PHOTO GALLERY



## ADDITIONAL CONTENT



### Comparison of expansion with Clayseal 25.20



## WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

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It is forbidden to dispose of the product and/or packaging in the environment.

