



PRS.0014

## CLAYSEAL 25.20

Waterstop with sodium bentonite and expanding rubber base

### Customs Code

4006 9000

### Packaging

- Box: 6 x (Roll 5 m)
- Pallet: 48 x (Box 21 Kg)

### Application

- Hammer
- Apply by hand

Family  
Proseal

Product Lines

- Aqua
- Infratech
- Sanageb

Components  
Single-component

Type

Sodium bentonite based hydro expansive products

Functional Categories

- Waterproofing underground structures with hydro-expansive products
- Structural maintenance of dams, reservoirs, ducts and water ducts
- Structural maintenance of tunnels
- Construction of underground works in high performance waterproof concrete

Appearance

Stripe

## Certifications and legislations



### Sanageb - Prodotti naturali per la Bioedilizia

Product of the Sanageb line, the line of products from Azichem Srl dedicated to green-building, ecological sanitation, thermal insulation and energy saving products since 1994.

## General description

Preformed hydro-expansive sealing waterstop joint, for hermetic sealed construction joints in structures, walls and foundations, made with a mixture of sodium bentonite, expanding rubber and special aggregating polymers ("hydrocarbon"). CLAYSEAL 25.20 has a rectangular cross-section of 25x20 mm, packaged in rolls of 5 m each.


## General features

CLAYSEAL 25.20 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, 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.

## Fields of application


Rigid construction joints (non-expanding) and connections with safe and permanent hydraulic seal.


## Basic features

 Density:  
1.4-1.5 kg/dm<sup>3</sup>

 Hydroexpansive product:  
+350 %

 Shelf-life:  
12 months

 Temperature of use:  
-15 / +50 °C

 Available colours  
Black

## Technical specifications

Expansion after 7 days at pH 12.33: 110 %

Expansion after 7 days at pH 7: 250 %

Fire resistance DIN 4102-1: B 2 \_

Longitudinal elongation at break: 60 %

Odorless

Sodium bentonite content: > 60 %

Unit weight (ASTM D71): 0.67 kg/m



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## Instructions for use

Hand spread the CLAYSEAL 25.20 sodium bentonite waterstop in the designated position. Fixing is performed by nailing: one steel nail every 20-25 cm approximately. The sealing of joints between the waterstop kerbs is ensured by simple flanking by at least 10 cm and not by overlapping the ends.

For particularly complex applications, the specific BENTONET steel wire cage, with square mesh 13x13 mm, in profiles of 1 metre each, is available.

## Substrate preparation

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

## Storage and preservation

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.



## Extract from the experimental test report

There follows an extract of the remarks summarizing the experimental report of the test performed by the Laboratory Cismondi Srl of Cuneo, with code 135/CHI / 15/09/0252 del 06.04.2009:

*Laboratory tests have shown that CLAYSEAL 25.20 presents an increase in volume in contact with the water of 243.4 %; a value to be considered high and more than sufficient for the function it must fulfill. The surface of the sample remains smooth, compact and free of flaws. The concrete resists to expansion, thus CLAYSEAL 25.20, compared to its high volume increase, will exert a good expansion pressure on site by preventing the permeation of the water at the points of casting. The increase in volume to a pH 12.33 is 110.4 %, a value greater than the smallest parameter of volume increase (100 %). The surface of the sample remains smooth, compact and free of flaws. CLAYSEAL 25.20 is a suitable product to be used in a basic environment, in contact with fresh concrete and cured).*

## Warnings, Precautions and Ecology

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

The positioning must ensure a concrete covering of 10-12 cm in order to contain the expansive action caused by hydration. Similarly, the formwork spacers should be placed in such a way as to maintain a minimum distance of 8 cm from the bentonite kerb itself.

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).

In case of groundwater with a high saline content or for leachate and waste water stops, carry out preliminary expansion tests or request the specific waterstop CLAYSEAL 25.20 SW.



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