

## PRS.0015 **CLAYTEX 120**

Waterproofing sheet with sodium bentonite base (width 120 cm)

### **Customs Code**

2508 1000

### **Dosage**

1 m<sup>2</sup> /m<sup>2</sup>

### **Packaging**

- Roll 6 m<sup>2</sup>

Family  
**Proseal**

Product Lines  
• Aqua  
• Sanageb

Components  
**Single-component**

Type  
**Sodium bentonite based hydro expansive products**

Functional Categories  
• **Instantaneous stoppage of water infiltrations in buildings**  
• **Waterproofing underground structures with hydro-expansive products**  
• **Structural maintenance of dams, reservoirs, ducts and water ducts**  
• **Structural maintenance of tunnels**

Appearance  
**Roll**

## General description

Flexible waterproofing mat for active waterproofing of underground structures, containing a uniform layer of granular sodium bentonite, with a high montmorillonite content, equal to 5.0 kg/m<sup>2</sup>, consisting of a needled geotextile fabric with nylon fibres interfaced with non-woven geotextile in weight 100%. CLAYTEX 120 is supplied in rolls of 1.20 x 5 m (6 m<sup>2</sup>), weighing 32 kg (±2 kg) per roll.

## General features

The products of the CLAYTEX line consist of natural sealants activated by water, with strong self-sealing properties. Their bentonite layer is continuous and uniform. The porosity of the protective and containment sheets is aimed at allowing a quick and proper hydration of the hydro-expansive material.

The bottom geotextile layer of the CLAYTEX products is made of polypropylene fabric of 115 g/m<sup>2</sup>, while the upper geotextile layer is made of nonwoven polypropylene of 220 g/m<sup>2</sup>.

There are two other sizes available on request (CLAYTEX 250).

## Fields of application


Waterproofing of underground structures in general, in the presence of groundwater risk. Waterproofing of waters containment basins, water channels and landfills.

## Available colours

• Beige

## Basic features

 Length: 5 m       Shelf-life: 12 months

 Width: 120 cm

## Technical specifications

*Adhesion to substrate (ASTM D903): 3.0±0.2 N/mm<sup>2</sup>*

*Bentonite mass per area unit (EN 14196 - 12% di umidità): 5000±100 g/m<sup>2</sup>*

*Breaking load longitudinal (EN 10319): 12.5±0.6 kN/m*

*Coefficient of permeability (ASTM D 5887): <1E-11 m/s*

*Dry thickness (UNI 9863-1): 6 mm*

*Flow (ASTM D 5887): <5E-9 m<sup>3</sup>/m<sup>2</sup>*

*Fluid loss (ASTM D 5891): <18 ml*

*Longitudinal elongation at break: <30 %*

*Montmorillonite content: >90 %*

*Peeling (ASTM D 6496): 200±10 N/m*

*Resistance to static punching (EN 12236): 2000±100 N*



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## Instructions for use

The mats should be placed preferably with the polypropylene side facing up (the darker side) and fixed by anchor nails with washers; in vertical walls, the installation must proceed from the bottom, after having made a suitable cement mortar cove, to be made preferably with OSMOCEM 447, at the corners produced between the base slab and the elevation wall, in order to facilitate laying the sheet.

Each mat must overlap with the adjacent one by at least 10 cm, arranged to ensure the vertical joints are staggered. It is essential to ensure the mats have an appropriate flap at the geometric discontinuity of the work, of the top of the structures etc. Pay particular attention to laying the bentonite sheets at the corners, wells, stairs, and reinforcement rods protruding from the floor slab.

## Substrate preparation

The surfaces of the application walls must be free of protrusions, cavities, gravel pockets, through holes for formworks, discontinuities from construction joints etc. For this reason, they should be preliminarily reclaimed with anti-shrinkage mortar (REPAR family) or with bentonite-based preparations (CLAYGRAIN). The support must absolutely be compact, otherwise it will be necessary to pre-create a suitable concrete subbase upon laying the bentonite sheet.

## Storage and preservation

Protect from freezing. 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. Store the product at a temperature between +5°C and +35°C.



## 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.

Avoid proceeding with concrete covering works of bentonite mats in anticipation of heavy rains. In the impossibility of a timely backfill it is necessary to provide for the temporary protection of mats with polyethylene sheets of 100-150 g/m<sup>2</sup>.

In case bentonite sheets have been installed outside the perimetral brickwork, do not backfill the excavation with material other than sand (sharp rocks, crushed by the weight of dry aggregates, could tear the bentonite sheet).

For more information please contact our Technical Service.



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CLAYTEX 120 is produced/distributed by



Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy  
info@azichem.com Tel. +39 0376.604185 /604365 Fax +39 0376 604398



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