BENTONITE AQUAPLUS RAYSTON

Hydroexpansive bentonite joint

DESCRIPTION

Bentonite Aquaplus Rayston is a sealing material for concrete joints. It is flexible and easy to install. The material is made of a butyl rubber-bentonite combination and can be used in any type of underground structure: basements, underground car parks, tunnels, tanks, etc.
On contact with water, the bentonite swells and forms a pressure sealing material that blocks water flow through the concrete joint.
The expansive properties of Bentonite Aquaplus Rayston make it move and fill small cavities and voids in the concrete, providing in-concrete waterproofing conditions.

APPLICATION

Applications of Bentonite Aquaplus Rayston include horizontal and vertical concrete structures, new and pre-existing, and piping and other passing- through elements as well.
Easy and quick to install, Bentonite Aquaplus Rayston keeps an effective sealing against hydrostatic pressures up to 70 m (7 bars).

PROPERTIES

- Simple, one-step installation.
- Permanent contact sealing material, no need to adhesives, welding, or special joints.
- Temperature stable. Resistant to repeated wet-dry cycles.
- Effective up to 70 m of hydrostatic pressure

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION	
Density ASTM D-71	1,62 g/cm3
Colour	Green
Use temperature	-40 ºC a 100 ºC
Packaging	20 mm x 25 mm x 5 m rolls, in boxes. Each box contains 5 rolls. Each roll is protected by a polyethylene film. 
Storage	Keep at temperatures between 5ºC and 30º. Keep away from moisture, rain and heat. Boxes must be kept in pallets. Do not stack
Expiration	The product has no definte expiration date, provided it is kept in its unopened packaging.

SUPPORT REQUIREMENTS

Support must be clean, dry, free from dust, laitance, greases or any incotible material.
Check chemical and adhesive cotibility. Check intended use temperature.

APPLICATION TEMPERATURE

-15ºC a + 50ºC

APPLICATION RULES

Bentonite Aquaplus Rayston may be used in contact with salt or polluted waters. Seek advice in highly polluted environments.

Bentonite Aquaplus Rayston must be used only within the concrete. Do not use it in exposed applications.

Do not allow water to come in contact with the product before use.

If the joint expands more than 1,5 times before application, use new material instead.

This product is not intended for use as an expansion joint. Please consult Krypton Chemical for advice on expansion joint solutions.

INSTRUCTION FOR USE

All the surfaces must be clean and free from water. Remove loose particles.

1. Unroll the required length of Bentonite Aquaplus Rayston and insert into place. Optionally, the material can also be nailed to the surface if necessary.
2. Joint successive sections to create a totally continuous joint. Do not overlap.
3. Stick the Bentonite Aquaplus Rayston around the pipe, forming a continuous joint. Fasten with wires if needed.
4. Pour concrete to cover the joint.

Notes:
Bentonite Aquaplus Rayston must be covered by concrete in a minimum 75 mm section.
Successive sections of joints must be sticked one to another without overlapping.

In verticals, begin installation from the bottom in order to avoid undesired deformations and elongations..

ENVIRONMENTAL PRECAUTIONS

Treat residues as inert waste, according to applicable local law.

OTHER INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.
We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests “on-site” in order to determine their convenience for a specific project.
Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.
This data sheet supersedes previous versions.

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