



Quellmax[®] PLUS

**Swelling bentonite-rubber insert
with anti-swelling coating under the influence of rain, for sealing construction joints**

- can be used in difficult weather conditions
- a coating that protects against swelling under the influence of rain
- strong swelling > 500%
- multiple swelling and shrinkage processes
- simple and quick application
- resistant to aging

Characteristics

Quellmax[®] PLUS is a swellable insert made of sodium bentonite, polyisobutyl rubber acting as a binding agent, and special fillers and additives. It is characterized by strong, fast and reliable swelling (> 500 %), which guarantees tight filling of cracks and gaps. The insole is covered with a patented, factory-applied, special coating that protects against weather conditions (e.g. rain), which effectively delays premature swelling for up to 3 days. The coating reacts to a high alkaline pH and chemically dissolves upon contact with freshly poured concrete mix. The process of swelling and shrinkage can take place many times. The insert has a rectangular profile. Due to the high content of inorganic ingredients, it reacts to water many years after installation.

Intended use

Quellmax[®] PLUS swellable insert is designed for permanent sealing of vertical and horizontal working joints of concrete structures, penetrations of installation elements through building partitions exposed to permanent or periodic action of groundwater, rainfall or surface water. Working gaps sealed with an swellable insert withstand a water pressure of 7 bar = 70 m water column. Application in zones of changing water table is possible and has been proven in long-term studies. Working gaps sealed with the **Quellmax[®] PLUS** insert in its areas of use are durable, tough, watertight and aging resistant.

Preparation of the substrate

Quellmax[®] PLUS insert should be placed on a stable surface: clean, dry, even, free of contamination and not reducing adhesion. Attention:

Quellmax[®] PLUS is not resistant to oils, gasoline, benzene, diesel oil, solvents, highly concentrated alkalis and acids.

Application

It is recommended to install the Quellmax[®] PLUS insert with nails or a suitable glue. The insert should be placed in the middle of the working joint at a minimum distance of 8 cm from both edges.



In wider work joints, the insert should be placed 1/3 to 1/2 of the gap width from the edge.
Directly before concreting, check if the insert is firmly attached.

Packaging

Roll 5 m
Box 20 m (4 rolls) or box 30m (5 rolls)

Dimensions available
cross-section 18 x 24 mm,

Shelf life and storage

Up to 3 years with proper storage conditions
Store in original packaging, at a temperature above 5° C, protect against direct influence of adverse weather conditions.

Industrial safety

The product is not toxic, dangerous and does not pollute water

ESSENTIAL CHARACTERISTIC	Quellmax PLUS
color	black/dark gray
shape	rectangular profile
protective coating	pH responsive polymer
grammage	730 g/m
dimensions	18 x 24 mm
density	1,9 g/cm ³
waterproof <small>(according to test report: MA 39-VFA19991209.02/19991210.02)</small>	7 bar
swelling capacity	> 500 %
swelling pressure	0,5 N/mm ²
reaction to fire	class E

The data contained in this technical data sheet are based on our experience and research, and constitute general information about the product and recommendations for application under standard conditions. The manufacturer guarantees the quality of the product, but has no influence on the conditions and manner of its use. In case of doubt, please contact us or make your own tests. With the appearance of this technical data sheet, the previous ones will no longer be valid.

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