

## BENTONITE PASTE

Universal bentonite filling compound

### PRODUCT DESCRIPTION

BPA - CEMtopaste is a specially activated mineral bentonite paste made of selected raw clays with high swelling reaction properties and long-life expectancy.

### APPLICATION AREAS

Waterproofing and protecting concrete surfaces in contact with ground earth in general building construction, underground engineering, structural engineering, and tunnelling.

For sealing pipes, shaft type structures, service and other penetrations, and flaws in flat surfaces; contraction cavities, patches of gravel etc. And other concrete elements. CEMtopaste is an ideal problem-solving solution when building bentonite-sealed concrete structures. Standing or other water ingress causes the bentonite to swell and thereby creates an extremely watertight, gel-like waterproofing layer which will seal the structure. Also suitable for sealing small cracks resulting from concrete shrinkage.

Further application areas:

- Sealing of basement slabs and foundations in areas that are in contact with the ground water
- External waterproofing of coves, horizontal and vertical areas that are covered with soil
- Landfill constructions, building constructions, civil engineering and tunnel constructions
- In combination with the BPA-CEMtobent systems (bentonite mat)
- Part of the BPA-Quellmax system (bentonite swelling water bar with drinking water approval)

### CHARACTERISTICS AND ADVANTAGES

- Environmentally friendly
- Simple handling
- Highly suitable for a wide range of applications: sealing and refurbishment in landfill constructions, building constructions, civil engineering and tunnel constructions
- Can be used as a pre- or post-applied sealing agent
- Suitable for water pressure and low-water pressure water areas
- Can also be used for high-stress and crack-jeopardized constructions
- The swelling of our bentonite is a natural and reversible process
- Manufactured with tight quality control
- Provides a high-pressure watertight seal
- Biologically safe, solvent-free, frost-resistant with special wax additives that have a very good adhesion to concrete
- Application is also possible in cold winter conditions

### PRODUCT DATA

	Bentonite paste BPA - CEMtopaste	Article-No.
Dimensions/ Packaging	Bentonite paste Bag with 25 kg, 50 bags per pallet	20-800
Storage	BPA - bentonite paste has a shelf life of approx. 5 years when stored in a dry, frost-free, UV and heat protected place. If possible, store in closed original packaging.	



# PRODUCT DATA SHEET / BENTONITE PASTE

06/2020

THE PRODUCT SHOULD BE STIRRED BEFORE USE

## TECHNICAL DATA

Technical average values of bentonite			
Water content DIN 18121	w	10 ± 2	%
Grit density DIN 18124	ρ <sub>s</sub>	2.65	g/cm <sup>3</sup>
Bulk density		800	g/l
Dry screen residue on 0.063 mm sieve		20 ± 5	%
Methylene-blue adsorption VDG P69		360 ± 30	mg/g
Cation-exchange capacity	CE C	80 ± 10	mval/ 100 g
Water absorption capacity Enslin-Neff, after 24 hrs DIN 18132	w A	≥ 500	%
Swelling volume		≥ 25	ml/2 g
Yield point DIN 18122	w L	450	%
Plastic limit DIN 18122	w P	45	%
Plasticity index (calculated)	Ip	405	%
Technical average values of CEMtopaste			
Density		1.95	kg/dm <sup>3</sup>
Flashpoint		>250	°C
Colour		yellow/brown	
Working temperature		-5 - +40	°C
Consistency		Soft-malleable to firm depending on temperature	



# PRODUCT DATA SHEET / BENTONITE PASTE

06/2020



## APPLICATION

The structure should be adequately firm and sound, and preferably a concrete substrate. Cracks > 1 mm and/or projections > 1 mm can be permanently filled and sealed with the CEMtopaste bentonite filling compound.



## General Advice

Do not use on a frozen surface at temperatures below 0°C when you are expecting frost or rain.

## Environment and health

This product does not represent a hazardous substance within the meaning of the EU Hazardous Substances Regulation. A safety data sheet for transport, placing on the market and use is available on the request.

## Health and Safety

The essential safety, toxicological, physical and ecological data for the handling of BPA – CEMtopaste can be taken from the product-specific safety data sheets.

## Data

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## Legal advice

All above mentioned Information concerning BPA-products, especially any recommendations and advices relating to the application and use of BPA products are given in good faith based on BPA's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with BPA's recommendations.



# PRODUCT DATA SHEET / BENTONITE PASTE

06/2020



In practice, the differences in materials, actual site conditions and other factors outside are such that no warranty nor any liability arising out of any legal relationship whatever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

The user of the product must test the product's suitability for the intended application and purpose before proceeding with the full application of the products. BPA reserves the right to change the properties of its products without notice.

Users must always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request. All sales of BPA are subject to our current terms and conditions.

## **Local Restrictions**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local product data sheet for the exact description of the application fields.

