

## BPA-CEM805 “ACTIVE” HYDROPHILIC, SOLVENT-FREE ADHESIVE

**One-component, solvent-free adhesive and sealing compound based on polyurethane**

### PRODUCT DESCRIPTION

BPA-CEM805 “active” is a one-component, solvent-free adhesive and sealing compound based on polyurethane which swells in contact with water for the sealing of joints and pipe penetrations.



### APPLICATION AREAS

BPA-CEM805 “active” is specifically designed for the following applications:

- 🔒 Sealing of flat and uneven construction joints, even on damp surfaces
- 🔒 Sealing of joints between prefabricated concrete elements (cable and pipe penetrations/ducts) also in wet conditions
- 🔒 Sealing of connections between steel girders and concrete floor slabs
- 🔒 Sealing of uneven surfaces and concrete substrates
- 🔒 Fixing of swelling tapes and injection hoses
- 🔒 Sealing of distance tubes
- 🔒 Sealing between sheet piles and concrete floor slabs

### HOW DOES BPA-CEM805 “ACTIVE” WORK?

CEM 805 “active” is a hydro-swelling, solvent-free, polyurethane-based sealant and adhesive for sealing joints and pipe penetrations. CEM 805 “active” swells (by at least 200%) and cures upon contact with water or moisture to form a permanent seal with long-lasting adhesion and waterproofing characteristics. Curing time depends on the prevailing temperature and the existing moisture. High temperature and high levels of moisture shorten the curing time. The performance of CEM 805 active is not influenced by the curing time.

### CHARACTERISTICS AND ADVANTAGES

- 🔒 Solvent-free
- 🔒 Outstanding adhesion and filling characteristics ensure safe and reliable cavity filling even on damp and uneven surfaces.
- 🔒 Can be applied to concrete, PVC, HDPE, and steel
- 🔒 Swells to up to approximately 200% of its original, dry state upon contact with water.
- 🔒 BPA-CEM805 “active” is a very flexible sealant and adapts well to uneven/rough surfaces.
- 🔒 Simple application/handling in a cartridge
- 🔒 BPA-CEM805 “active” remains functional for the whole lifespan of the structure.
- 🔒 Excellent resistance to chemicals
- 🔒 Resistant to mineral-oil products, mineral and vegetable oils and greases
- 🔒 BPA-CEM805 “active” is drinking water safe



## PRODUCT DESCRIPTION

	BPA-CEM805 “active” hydro-swelling, solvent-free, sealant and adhesive	Article-No.
<b>Dimensions/ Packaging</b>	310 ml cartridge, 12 units per box Standard colour: white / beige	40-160
<b>Storage</b>	Shelf-life is 12 months when stored free from frost and sunlight in temperatures between +5 and +30°C.	

## TECHNICAL DATA

Property	Value	Test Method
Solids	100%	CEM Test
<u>Uncured:</u>		
Viscosity	Paste-like	CEM Test
Density (at 20°C)	approx. 1,45 kg/dm <sup>3</sup>	DIN 53504
Slump in vertical applications	< 5mm (average 3 mm)	Boeing Test
Hand dry (at 20° C and 60% RH)	10h	CEM Test
Flash Point	> 130° C	Pensky-Martens method
<u>Cured (7 days at 25° C and 10mm thick):</u>		
Elongation at break	approx. 625 %	DIN 53504
Tensile strenght	approx. 22 kg/m <sup>3</sup>	DIN 53504
Resistance to hydrostatic pressure	150 m water column	CEM Test
Swelling capacity in contact with water	approx. 200 % of its original dry volume	CEM Test

## ADDITIONAL INFORMATION

BPA-CEM805 “active” should be applied onto a dust-free surface. The surface can be rough or smooth, moist or dry. When applying BPA-CEM805 “active” in underwater or very wet conditions, be certain to cast the concrete within 6 hours to prevent premature swelling.

### Application method

- 🔗 Break the moisture proofing aluminum foil on the top of the cartridge and remove the seamer from the bottom.
- 🔗 Screw on the nozzle and cut diagonally at the appropriate position.
- 🔗 Place the cartridge into caulking gun.



**Consumption**

The consumption of BPA-CEM805 “active” per linear meter depends on the concrete surface quality.

Nozzle Diameter	Lenght with 310 ml cartridge
3 mm	20-25 m
6 mm	8-10 m
8 mm	4-5 m
10 mm	approx. 3 m

**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.

**Dangers and Safety**

The essential safety, toxicological, physical and ecological data for the handling of BPA-CEM805 “active” 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.

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 whatsoever, 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.

