

## Technical Data Sheet

# Zemseal® Flex Paste

Fast-drying, two-component, polymer-modified bitumen thick coating (PMBC) for waterproofing structures

### Product

<b>Description</b>	<b>Zemseal® Flex Paste</b> is a two-component, polymer-modified bitumen thick coating for waterproofing buildings. Fast drying, viscoplastic and crack bridging.
<b>Usage</b>	As a sealant for vertical, horizontal and sloping surfaces under protective layers in accordance with DIN 18533. As a sealant for water exposure classes W1-E, W2.1-E, W3-E and W4-E.
<b>Characteristics / advantages</b>	<ul style="list-style-type: none"> <li>▪ Polymer-modified bitumen thick coating (PMBC)</li> <li>▪ Fast through-drying due to powder components</li> <li>▪ Suitable as mastic due to its consistency</li> <li>▪ Highly flexible and crack-bridging, listed in the DGNB Navigator</li> <li>▪ Radon-tight</li> <li>▪ Environmentally friendly, as solvent-free</li> <li>▪ Complies with DIN 18533 and DIN EN 15814</li> </ul>

### Test Reports

<b>Approvals / Standards</b>	CE according to DIN EN 15814
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### Product Data

<b>Appearance</b>	2k-PMBC Spatula, black
<b>Packaging</b>	28 kg Hobbock 1 pallet (12 hobbocks á 28 kg)
<b>Storage</b>	The tightly closed original containers can be stored between +5°C and +30°C in a dry environment for at least 12 months. Protect the material from excessive heat or direct sunlight and from frost.
<b>Classification</b>	GISCODE BBP10
<b>Container disposal</b>	In the interest of our environment, please empty the containers completely of ingredients. Waste code: GA213361

## Material Properties

Parameter	Unit	Value	Comments
Density	g/cm <sup>3</sup>	1,15	mixed material
Processing time	hours	1 – 2	at 20°C and 65 % relative humidity
Processing conditions	°C	≥ +5	Air and substrate temperature
Drying	days	1 – 2	at 20°C and 65 % relative humidity. Depending on temperature, humidity, substrate and wet film thickness, the drying time is extended or shortened.
Consumption quantities	kg/m <sup>2</sup>	4,8	Wet film thickness      Dry film thickness 4,2 mm                      3 mm
	kg/m <sup>2</sup>	6,6	5,7 mm                      4 mm Depending on the condition of the substrate and the workmanship, the consumption values may increase.

The information on properties / characteristics is based on laboratory tests and may deviate in practice. In order to determine the technical suitability in individual cases, preliminary tests / suitability tests must be carried out under the given conditions of use.

## Processing instructions

### Substrate preparation

**Zemseal® Flex Paste** can be applied to all mineral substrates. The substrate must be prepared in accordance with DIN 18533 Part 1 and Part 3 and shall be frost-free, dry and free of harmful contaminants (dust, formwork oil, etc.), as well as nests, ridges and gaping cracks. Matt damp surfaces are permissible. A mineral sealing slurry must be applied to prevent moisture penetration from the rear. Depressions > 5 mm must be closed with a suitable mortar. In the area of the floor/wall connection, the cove can be made with a mineral mortar or with **Zemseal® Flex Paste**. Before coating with the PMBC, a primer must be applied to normally absorbent substrates.

Normally absorbent substrates: Primer of 10 parts water: 1 part **Zemseal® Flex Paste**.

Highly absorbent and/or chalking substrates: Primer.

### Processing the waterproofing

**Zemseal® Flex Paste** is mixed with a stirring staff and a slow-running agitator for at least 3 minutes to a homogeneous and pasty filler compound. This filler is applied to the wall with a trowel. The layer thickness depends on the respective water exposure class. For water exposure classes W1-E and W4-E, a minimum dry film thickness of 3 mm (2 layers) is required. For water exposure classes W2.1-E and W3-E, a minimum dry film thickness of 4 mm (2-ply) with a system-tested reinforcement insert applies.

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**Processing instructions**

**Curing**

**Zemseal® Flex Paste** must be protected from the effects of rain until it is rainproof. Water load and frost exposure must be excluded until the coating is completely dry. The fully dried waterproofing layer must be permanently protected from damaging influences such as static, dynamic and thermal loads as well as UV exposure by suitable protective layers (e.g. perimeter insulation). The excavation pit can only be backfilled in layers after the protective layer has been applied.

**Other notes**

For structural waterproofing with polymer-modified bitumen thick coatings, DIN 18533, as well as the guideline for the planning and execution of waterproofing with polymer-modified bitumen thick coatings (3rd edition, May 2010, of Deutsche Bauchemie) shall be taken into account.

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**Environment /  
Sustainability**

The company MAX FRANK GmbH & Co. KG has implemented a certified environmental management system since July 2022.

Please dispose of and recycle the packaging in accordance with the applicable legal regulations.

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**Disclaimer / Notes:**

The usability of the products in the specific installation situation must be checked by the user. This data sheet is constantly updated. Technical changes are therefore expressly reserved without prior information of the customer. The currently valid version can be found on our website at: [www.maxfrank.com](http://www.maxfrank.com). Our General Terms and Conditions of Sale apply in addition.