



# FLEXO TWO

Elastic waterproofing  
cementitious two-component  
mortar



konstruktive • **leidenschaft**



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## PRODUCT DESCRIPTION

**FLEXO TWO** is an elastic cementitious two-component mortar for waterproofing concrete surfaces, plasters, screeds and cement-based substrates, ceramic and marble. With high adhesion to substrates, good flexibility and excellent workability: it is suitable for the waterproof protection of baths, showers, terraces, balconies, tubs, swimming pools, canals, before laying ceramic tiles, natural stone or glass mosaics. It can also be used to protect surfaces that come into contact with seawater and in all cases where there is presence of de-icing salt.

The product is flexible even at very low temperatures (-20°C), ensuring the waterproofing of treated surfaces and is compatible with cement-based adhesives and coatings for subsequent layers.

## COMPOSITION

**FLEXO TWO** is a two-component formulated powder containing special cements, selected aggregates, specific additives and special synthetic polymer dispersed in water to ensure, substrate adhesion, flexibility, water resistance and elasticity.

## MIXING AND APPLICATION

### CONCRETE SURFACE PREPARATION

The substrates must be sound, consistent, seasoned, free of dust and unstable parts. The surfaces must be dry and free from rising damp. Clean surfaces to remove all traces of residual cement, release agent, dust, grease, brittle or detached parts by sandblasting or pressure washing. Restore the substrate using mortar for concrete repairs. Moisten the prepared substrates with clean water before applying the waterproofing system.

### CEMENT-BASED SCREEDS AND CEMENT FOUNDATIONS

The substrate must be sound, solid, free from dust, and brittle parts. The surfaces must be dry and free from rising damp. Seal in advance any cracks in the screed.

### CERAMIC OR MARBLE PREPARATION

The substrate must be sound, solid, free from dust, and brittle parts. The surfaces must be dry and free from rising damp. The existing coatings should perfectly adhere to substrate. Remove any dust, oil, wax, grease, paint, etc. from the substrate using suitable pressure washing.

### PLASTER PREPARATION

The substrate must be sound, solid, free from dust, and brittle parts. The surfaces should be dry, seasoned, and free from rising damp. Remove any dust, paint, etc. from the substrate. Moisten the prepared substrates with clean water before applying the waterproofing system.

### APPLYING WATERPROOFING SYSTEM

Pour liquid component (B) in a clean container slowly adding the powder component (A) of **FLEXO TWO** and mix with an electric mixer at low speed until the mixture is smooth and free of lumps. Let the mixture rest for about 3' minutes and briefly mix again before use. Use the mixture within 60' minutes of preparing.

Apply **FLEXO TWO** with a trowel in at least two layers on accurately prepared substrates.





In correspondence of the edges, the corners and expansion joints to be waterproofed, both on floors and on walls, apply the nonwoven tape **FLEXOTEX**, incorporating it into the product. Apply the first product layer of about 2 mm on the surface to be waterproofed. If substrates have micro cracks or are exposed to strong pressure (waterproofing of tanks, swimming pools, terraces and balconies), apply within the first coat of fresh **FLEXO TWO** the reinforcement mesh **ARMANET 4X4**, incorporating it into the product and compacting with a trowel, avoiding creases. When product is hardened, apply a second layer to the entire surface, forming a uniform coating of 2-3 mm.

With suitable weather conditions and temperatures, wait at least 24-48 hours before applying the subsequent adhesive coating, or until the waterproofing system is completely hardened.

When laying ceramic tiles on the waterproofing system **FLEXO TWO** it is recommended to use professional mono-component cement-based C2 adhesives such as **MASTERPLUS**.

**INDICATIVE AMOUNTS REQUIRED**

1.4 kg per m<sup>2</sup> per mm of thickness.

**COLOUR**

Grey.

**PACKAGING**

20 kg pack A+B.  
*Component A (powder):* 15 kg bag.  
*Component B (liquid):* 5 kg plastic jerry can.

**STORAGE**

*Component A:* 12 months in original intact packaging and stored in a dry place.  
*Component B:* 12 months in original intact packaging and protect from frost.

**RECOMMENDATIONS**

Do not mix the product manually, but use an electric mixer at low speed.  
Protect the treated surfaces from sunlight and rapid drying.  
In low temperatures, verify that the product is dry before laying ceramic tiles.  
Assess the products adequacy if rained upon during the drying phase before applying further products.  
Do not apply on gypsum based or anhydrite substrates without previously treating with specific primers.  
Do not apply on substrates of metal, wood, bituminous membranes, inverted roofs with insulation or lightweight substrates.  
Do not use for exposed waterproofing coatings.  
Use the **FLEXOTEX** tape for proper sealing of corners, edges and expansion joints.

**COMPONENT A DATA**

<i>Appearance</i>	powder
<i>Colour</i>	grey
<i>Dry bulk density</i>	~ 1350 kg/m <sup>3</sup>
<i>Maximum aggregate size</i>	≤ 0.4 mm

**COMPONENT B**

<i>Appearance</i>	liquid
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**DATA**

<i>Colour</i>	white
<i>Density</i>	1.1 kg/dm <sup>3</sup>
<i>Dry solid content</i>	52 ± 2 % p/p

**APPLICATION DATA**

<i>Mixing ratio</i>	3 parts of A powder : 1 part of B liquid
<i>Minimum temperature for application</i>	+ 5°C
<i>Maximum temperature for application</i>	+ 35°C
<i>Working time</i>	≥ 60' minutes
<i>Minimum applying thickness</i>	≥ 2 mm
<i>Waiting time between coating</i>	≥ 6 hours
<i>Waiting time between laying of ceramic tiles</i>	≥ 24 hours
<i>Operational time of system</i>	≥ 7 days
<i>Bulk density of fresh mortar</i>	~ 1670 kg/m <sup>3</sup>

**PERFORMANCE DATA**

<i>Initial tensile adhesion strength</i>	0.98 N/mm <sup>2</sup>	EN 14891
<i>Tensile adhesion strength after water contact</i>	0.57 N/mm <sup>2</sup>	EN 14891
<i>Tensile adhesion strength after heat ageing</i>	1.65 N/mm <sup>2</sup>	EN 14891
<i>Tensile adhesion strength after freeze-thaw cycles</i>	0.82 N/mm <sup>2</sup>	EN 14891
<i>Tensile adhesion strength after contact with lime water</i>	0.75 N/mm <sup>2</sup>	EN 14891
<i>Tensile adhesion strength after contact with chlorinated water</i>	0.73 N/mm <sup>2</sup>	EN 14891
<i>Waterproofing</i>	no penetration	EN 14891
<i>Crack bridging ability under standard conditions</i>	1.08 mm	EN 14891
<i>Crack bridging ability at low temperature (- 5°C)</i>	0.88 mm	EN 14891
<i>Crack bridging ability at very low temperature (-20°C)</i>	0.77 mm	EN 14891
<i>Release of dangerous substances</i>	See MSDS	EN 14891

**ACCORDING TO**



**EN 14891:2012**

Water based waterproofing product, liquid applied, cement modified with polymer, with improved crack-bridging capacity at very low temperature ( -20° C) and resistant to contact with chlorinated water, intended for external installation on walls and floors and pools below ceramic tiles (bonded with an C2 according to EN 12004) - CM O2P

**REMARKS**

**Product for professional use.** The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site [www.vimark.com](http://www.vimark.com).

