

Product type: Thin waterproofing mortar with osmotic permeation and increased resistance to mechanical stresses

Short description of product: *OsmoCEM* is a powder mixture made up of cement, quartz sand, selected inert materials and specific water-soluble additives.

Areas of application: *OsmoCEM* is used for waterproofing of inner concrete, screed floors or inner coatings on which ceramic or PVC coverings are subsequently fitted (for example: Bathrooms, kitchens) and areas where there is no hydrostatic pressure.

Technical data:	Physical form	powder
	Colour	grey
	Flammability	no
	Toxicity	no
	Apparent density	approx. 1,600 kg/m ³
	Average consumption	1.3 kg/m ² /mm ²
	pH	11,5
	Bending strength after 28 days	11 N/mm ²
	Compressive strength after 28 days	40 N/mm ²
	Pot life	90 minutes
	Adherence to base layer (concrete base layer) per 28 days	≥ 1.5 N/mm ²
	Adherence to base layer (brick base layer) per 28 days	≥ 2.5 N/mm ²
	Mixture water	~ 6 l / 25 kg
	Preparation	Only with water
	Temperature range for usage	+ 5°C – + 35°C

Instructions for use: Application of product is carried out only by trained and skilled workers in applications, in the following stages:

1. Checking the base surface:

Checking the base layer is an important stage in the process of applying the product.

The surfaces upon which *OsmoCEM* is applied should have the following features:

- a. they should be made out of concrete or screed, at least 28 days old.
 - b. they should be clean, dust and salt free, they should not contain any non-adhesive substances (grease, bitumen, dust, gypsum, dye, old wall painting etc.), with a normal water absorption between 3% and 6%.
 - d. they should be crack free. Capillary cracks are allowed; they occur due to hydraulic intake, drying and hardening of the base layer. Other cracks caused by incorrect application of the base layer and which are major (> 0.3-0.5 mm), moving and which worsen simultaneously with the process of hardening are not allowed.
 - d Resistant, compact and free of any brittle parts.
 - e. They should be dry - the residual humidity, measured at about 2-3 cm inside the base layer on which the product is applied, should not exceed 2%.
- If the base layer for which the product is used does not comply with the 5 minimum requirements mentioned above, it is considered to be unfit for waterproofing with this product.

2. Preparing the product:

The paste is obtained by mixing the product with clean and cold water (200ml/kg) in clean and appropriate containers, by pouring the product in water. The mixture is created with a specialized rotating mechanical

device, with low revolutions (maximum: 500 rev/min) and high power (minimum: 1,200 W), fitted with a mixing rod, specially designed for mortars.

Mixing is done for 2 minutes and after 10 minutes, the paste is mixed again for about 1-2 minutes; after this, the paste can be used provided that the moments of using the product are observed. The non-observance of the mixing stages implicitly causes the product to lose its properties and, thus, failures in using it may occur.

3. Product application:

None of the operations described below shall be performed under direct sunlight, under powerful air currents (wind) or at air or base layer temperatures lower than 5°C or exceeding 35°C.

It is applied in two layers, each being 1-2 mm thick; the second layer shall be applied after the first one has dried (approx. 12 from the application of the first layer). Application is carried out with the hawk.

One layer is applied longitudinally, the other- transversally.

For large and flat surfaces, it is recommended to reinforce the product with glass fiber net with a specific weight of approx. 150 g/m². The first layer is applied with the hawk. The glass fiber net is applied by pressing it with the hand or hawk so that it permeates up to approx. 50% of the total thickness of the layer. The net will be overlapping at least 10 cm at the joints between the straps.

After the net is applied, the layer thus obtained is finished with the hawk to also incorporate the net; therefore, a flat and smooth surface shall result (in its middle area the glass fiber net is incorporated).

The total time needed for applying the mortar, inserting the net and finishing it (by filing) shall under no circumstances exceed 10 minutes.

The final layer obtained should have enough thickness so that the glass fiber net can be completely incorporated into the layer.

Attention shall be paid so that the filling process should result in a smooth, levelled and flat surface.

The total time needed for applying the mortar, inserting the net and finishing it (by filing) shall under no circumstances exceed 10 minutes.

The final layer obtained should have enough thickness so that the glass fiber net can be completely incorporated into the layer.

Attention shall be paid so that the filling process should result in a smooth, levelled and flat surface. At the joint between the floor and masonry, the related product *ElastoBAND F* shall be used. Along the whole length of the joint between the wall and the floor, a thin layer of *OsmoCEM* is applied, on top of which *ElastoBAND F* is attached. After being fixed into position, *ElastoBAND F* shall be covered with *OsmoCEM*. *ElastoBAND CI* or *ElastoBAND CE* shall be used at the interior or exterior corners. *ElastoBAND T* shall be used for piping passages.

4. Final recommendations:

- a. The product is mixed only with clean and cold water and only in clean and appropriate containers.
- B. The product shall not be used with construction elements undergoing hydrostatic pressure;
- c. The surfaces on which *OsmoCEM* was applied cannot be walked on; this is why, the respective surfaces have to be immediately covered with tiles, glaze etc.
- d. The product shall not be applied on surfaces which contain gypsum or which are treated with anhydrides.
- e. The product is not applied under direct sunlight, wind, rain or air and base layer temperatures lower than + 5°C or exceeding + 35°C or when such phenomena may occur in the next 24 hours; it should not be applied at relative humidity values others than 55% - 65%.



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Data Sheet

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OsmoCEM

Code: 1.6.01
Technical agreement: AT 007-03/248-2008

Packaging: The product is packaged in sacks weighing 25 kg; 60 sacks per pallet covered in foil.

Storage: The product is stored for maximum 12 months in a dry place, in its original undamaged package, placed on the pallet.

Marking: Each sack is marked by being stamped, on the bottom, with the following information: date of production – five groups of figures symbolizing:
the day, the month, the year ending, production line number, production batch number.

Warranty: The product has a 12 month warranty beginning on the date of production marked on the package; this warranty applies only for the storage conditions mentioned above.

- WARNING!**
- The prepared product is alkaline. During handling and transport, goggles, gloves and anti-dust masks should be worn. In case the product gets accidentally into your eyes, wash immediately with lots of clean water and then quickly contact a doctor!
 - Products with damaged packaging should not be used.
 - The unused items should not be discarded into the sewerage system

Note 1: The present data sheet accompanies each invoice or waybill which refers to the product presented in the sheet.

Note 2: It is forbidden to reproduce parts or fragments from the present data sheet.

Note 3: The present data sheet has been drawn up to properly inform the user about the presented product. The use of this sheet for other purpose than informing you about the product and preparing the technological specifications regarding application is strictly forbidden without the written consent of ITAL-KOL.

Note 4: For other additional information, which you consider you should receive or you find useful, we recommend that you contact the producer in writing, before using the product. Any producer liability regarding failures in applying the product resulted from misinterpreting the text of the present data sheet or from verbal consultancy is excluded.

Note 5: The data presented in the product data sheet and, mainly, the instructions regarding the manner and area of application of the product are based on the skills and practical experience of the person applying the product. Due to a large variety of materials, tools or working conditions which we cannot totally control or foresee or which, even if they are clearly mentioned in the product data sheet, are not correctly assessed by the person applying the product, in each case we recommend, before use, to carry out individual tests of applying the product, so that you can be sure that the product the present data sheet is describing is suitable for your respective field of application.

Any producer liability regarding failures in applying the product resulted from the causes mentioned above in this sheet is excluded, except for the event when the damages resulted only from the poor quality of the product that the present data sheet refers to.

Note 6: Depending on the evolution of the technical regulations applicable, the producer preserves the right to modify the present data sheet. For the purpose of confirming the data in the sheet, we recommend you to visit the web page: web www.italkol.ro prior to using the product