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C.I.F.: RO 6470443, Nr. Înreg.Reg.Com.: J35 / 3176 / 93

CONSTRUIEȘTI CORECT

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Data Sheet

Ed.1 /Rev.2 | Cod F.14.00.05
Revised and amended on:
10.10.2008

HidroCEM

Code: 1.6.02
Technical agreement: AT 007-03/248-2008

Product type: Thin waterproofing mortar with osmotic permeation.

Short description of product: *HidroCEM* is a powder mixture made from cement, quartz sand, selected inert materials, specific additives which – mixed with water- create a solution with a high capacity of osmotic permeation into concrete, screed or cement-based coating, resulting in a flexible, waterproof layer with high mechanical resistance.

Areas of application: *HidroCEM* product is used for the following:
- waterproofing of inner concrete, screed floors or inner coatings on which ceramic or PVC coverings are subsequently fitted (for example: in bathrooms, kitchens), even under the influence of hydrostatic pressure;
- protecting the interior of brick or concrete coatings or protecting the interior of concrete or screed floor coverings against humidity caused by the hydrostatic counterpressure resulted from the water existing in the capillaries (for example: coatings, inspection chambers, water delivery channels, basements).

Technical data:	Physical form	powder
	Colour	grey
	Flammability	no
	Toxicity	no
	Apparent density	Approx. 1,550 kg/m ³
	Average consumption	1.3 kg/m ² /mm ²
	pH	11.5
	Bending strength after 28 days	9 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	0.8 N/mm ²
	Adherence to base layer (brick base layer) per 28 days	3.5 N/mm ²
	Mixture water	~ 5.5 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 specialized 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 *HidroCEM* is applied should have the following features:

- they should be made out of concrete or screed, at least 28 days old.
- 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%.
- 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.
- Resistant, compact and free of any brittle parts.
- 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.



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2. Preparing the product:

The paste is obtained by mixing 25 kg of product with 5.5 l of clean and cold water (200ml/kg) by pouring the product into the water (and not the other way around!). The mixture is created with a specialized rotating mechanical device (electrical or pneumatic), with low revolutions (maximum: 500 rev/min) and high power (minimum: 1,200 W), fitted with a screw specially designed for mortars.

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.

In case the product is used on structural elements which undergo hydrostatic pressures, the surface shall be treated with RENOVA ANTISARE.

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.

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 *HidroCEM* is applied, on top of which *ElastoBAND F* is attached. After being fixed into position, *ElastoBAND F* shall be covered with *HidroCEM*.

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:

- the product shall be used on construction elements undergoing hydrostatic pressures.
- the product shall not be applied on surfaces which contain gypsum or which are treated with anhydrides.
- the product is mixed only with clean and cold water and only in clean and appropriate containers.
- 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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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.

Each sack is marked by being stamped, on the bottom, with the following information: date of production –
Marking: 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.

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