



WATERPROOFING TECHNOLOGIES
OOO «BATEK»

+7 (499) 713-40-67

+7 (499) 713-18-53

info@watech.ru



Vimacret Power-TH

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Vimacret Power-TH

High strength fibre-reinforced non-shrinking cementitious mortar for repair jobs on concrete elements

Fields of application

Thanks to its special composition and remarkable mechanical properties Vimacret Power-TH is suitable for easy and highly durable restoration jobs in buildings without formworks.

Some indicative uses are repairs of damaged, cracked or broken concrete elements (e.g. columns, beams, slabs, stairs, holes of hairpin bends), doors, windows (frames, bases), cracks and joints on concrete, rigid joints used for pre-cast, industrial flooring, visible reinforcements and concrete pipes.

Properties

Vimacret Power-TH is a non-shrinking ready-to-use premixed mortar of high thixotropy. Its aggregates of selected particle size and special additives prevent any cracking attributed to non ideal curing conditions such as plastic shrinkage or vibrations (e.g. due to noise and traffic of vehicles). It shows quick and easy laying and finish. Vimacret Power-TH possesses modulus of elasticity and coefficient of thermal expansion, which grants excellent compatibility with concrete elements. It has great resistance to the attack of chemical agents such as chlorides (defrosting salt, sea water, etc.), sulphate, acid rain, carbon dioxide. Vimacret Power-TH complies with international standards UNI 8996 and UNI 8147.

Technical characteristics

Mix appearance	grey powder
Density, g/cm ³	1,95
Adhesion to concrete (28 days), MPa	>4
Adhesion to steel (28 days), MPa	>32
Compressive strength (28 days), MPa	55
Flexural strength (28 days), MPa	11
Water per 100kg NEOREP, l	16-18
Consumption of fresh mix, kg/m ² /mm	1,65-1,74
Minimum temperature for application, °C	+4

Instructions for use

- Careful cleaning of the surface and removal of dust, oil, grease, traces of rust to achieve a solid substrate
- In case anticorrosion protection of steel reinforcement is needed, apply two layers of mix 1kg copolymer emulsion REVINEX®/2-3kg Vimacret Power-TH with paint brush or brush
- Good wetting of the spots to be repaired at least 6-12hours before mix application
- Add water so as the mix obtains the desired consistency. The mortar is applied with trowel or spray in continuous layers of thickness up to 3,5-4cm each. Finishing may be

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performed by smoothing the surface with a wooden or plastic plastering trowel. This last operation may be performed when the mortar begins to set, i.e. when the fingers no longer sink in the mortar (touch dry).

- The addition of REVINEX at a rate 1 parts REVINEX: 3 parts water into NEOREP (1-2kg REVINEX/25kg Vimacret Power-TH) improves adhesion properties of the mortar to concrete, brick and reinforcement whereas it grants enhanced waterproofing and duration to time and compression.

NOTES

- Low temperatures and high humidity during application prolong drying time, while high temperatures decrease it. Thus pot life usually ranges from 30 minutes to 1hour.
- The presence of polypropylene fibers and specific anti-shrinkage additives prevent the formation of holes or cracks, even without the application of humid curing. However, when used in places, which are completely exposed to the sun or too ventilated, wetting during drying of the mortar for 24-48hours is recommended, especially when high temperatures prevail.
- In case of vertical or horizontal applications of big openings more than 3,5-4cm the use of fiber mesh GAVAZZI V3-133-A is recommended after first layer of Vimacret Power-TH.

Packing

25kg carton bags and 5kg plastic containers

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