



ΤΕΧΝΟΛΟΓΙΕΣ ΧΗΜΙΚΩΝ ΔΟΜΙΚΩΝ

VIMACRET POWER

**Pourable, non shrinkable, resin improved repairing,
high strength mortar**

Properties

VIMACRET POWER is a pre-mixed cement mortar that, thanks to the special additives it contains, creates after mixing with water a viscous mixture suitable for pouring.

Offers:

- Very good workability and liquidity
- Excellent adhesion to substrate and steel reinforcement
- High resistance to fatigue, thermal cycles and high temperatures
- High mechanical strength
- Small water absorption

It is classified as repair mortar CCR4 type of bearing concrete elements according to EN 1504-3.

Applications

VIMACRET POWER is suitable for restoration repairs of concrete elements which concern durability.

It is applied by pouring to a thickness of up to 10 cm for filling of voids and construction of mantles in cases of:

- Reinforcement or restoration of cross-section
- Machine insertions, anchorages and attachments (lathes, presses, crushers, etc.)
- replacement of contaminated concrete
- increasing the thickness of the reinforcement overlay

Technical characteristics

Form	gray mortar in powder form
Mixing water	16 % on dry mortar
Compressive strength (EN 12190)	≥ 45 MPa
Adhesion (EN 1015-17)	2,0 MPa
Resistance to carbonization (EN 13295)	successful
Resistance to freeze-thaw (EN 13687-1)	2,0 MPa
Elastic modulus (EN 13412)	20GPa
Capillary absorption (EN 13057)	< 0,5 kg m ⁻² h ^{-0,5}
Reaction to fire	Euroclass A1



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How to use

Substrate must be solid, free of dust, loose materials, loose parts.

Before using **VIMACRET POWER**, the substrate must be well moistened.

Also, the joints of the formwork must be sealed prior to the pouring of the material, e.g. with **WATERFIX** fast setting cement, because fresh **VIMACRET POWER** is very fluid and fine, so there is a risk of leakage of the material.

The dry mortar is added to the water progressively under stirring until a homogeneous mixture with the desired workability is obtained.

For each **VIMACRET POWER** bag, about 4,2 kg of water is required.

If necessary, additional water can be added to achieve the desired fluidity but without exceeding 4,7 kg per 25 kg bag. Because the material is applied to fill relatively thin gaps / cross-sections there is a risk of air being trapped resulting in incomplete filling. Therefore, pouring should be done with caution so as to avoid this risk.

For thicknesses greater than 10 cm, please contact our technical support for further information.

Caution ! Product for professional use. The ambient temperature during application should be between + 5 °C and +35 °C.

Under high heat conditions, fresh mortar must be wetted for at least 24 hours to protect it from rapid dehydration.

The mixture's fluidity at 20 ° C lasts about 1 hour. In the event of high ambient temperatures and if it is desired to handle the mixture for a long period of time, cold mixing water may be used and of course the bag containing dry mortar has been stored in a shady, cool place.

Once the curing has begun, it is not allowed to add water again to soften the mortar. In addition, do not add cement, other additives or mortars without contacting our technical support.

Tools should be cleaned with water immediately after use, before the mixture is dried.

Consumption

To fill a volume of 1 L with fresh mortar, about 2 kg of **VIMACRET POWER** dry mortar is required.

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Storage

Storage of the material should be done in a dry environment at temperatures between +5 ° C and +40 ° C and in sealed bags lasting at least 12 months.

Protection

The product contains cement and is considered as irritant due to alkaline reaction with water.

Prior to application of the material, the risk phrases and precautionary statements on the package should be read.

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VIMATEC - N. VIDALIS S.A.

CONSTRUCTION CHEMICALS TECHNOLOGIES

Head: 1-3, Makedonias str, GR-546 41 Thessaloniki GREECE

Tel: +30-2310 858561, +30-2310 843093 Fax: +30-2310843566

e-mail: info@vimatec.eu