

VICAPROOF-150®

Edition 03022

Two Component, Waterproofing Cementitious Slurry

Description

VICAPROOF-150 is a Two component Waterproofing slurry for concrete and masonry based on cement, siliceous graded fillers, additives (part A) and modified acrylic polymer (part B).

After mixing part A with part B it will produce workable slurry that can be applied by brush or trowel.

VICAPROOF-150 is an ideal economic solution for the protection of concrete and masonry structures against moisture.

Advantages

- Economic and easy to apply
- Very low capillary absorption with good breathability.
- Resists carbonation providing excellent protection to steel reinforcement.
- Suitable for food industry and potable water.
- Excellent adhesion.
- Limited flexibility.
- Doesn't need surface smoothing before application.
- Can be used indoor and outdoor.
- UV resistant.

Uses

VICAPROOF-150 is ideal to be used for the following operations:

- Waterproofing coating for water retaining structures, foundations and wet areas.
- To protect concrete against concrete decay providing a chemical resistant barrier to corrosive salts and atmospheric gases.
- To reface concrete surfaces.
- To provide a tough and durable coating.
- To provide protection to concrete surfaces from carbonation.

Standards & Specifications

Color	Grey or white (other colors are available upon request)
Toxicity	Non-toxic
Pot life	30-40mins at 20°C
Fresh density (by Brush)	1.5 Kg/liter
Adhesion to concrete substrate	> 1 N/mm ²
Substrate temperature	+5 °C to +35 °C
Recoating interval	3hrs at 30°C 6hrs at 20°C 12hrs at 10°C If more than 24hrs slightly blast clean the surface for better adhesion
Curing time before operation	3 to 7 days depending on ambient temperature
Mixing ratio by weight	Slurry: 4 powder (Part A) : 1 liquid polymer (Part B) Mortar: 5 powder (Part A) : 1 liquid polymer (Part B)
Compressive strength according to EN196-1	> 20Mpa at 28days (mortar consistency)
Crack bridging abilities	Slightly flexible & not recommended for crack bridging
Impermeability to water, expressed as capillary absorption (kg/m²·h^{0.5}): EN 1062-3	< 0,1 kg/m ² · h ^{0.5}
Impermeability to water under pressure (3 bar): EN 14891-A.7	No water penetration

Package & Coverage

VICAPROOF-150 is supplied in a group of 20kg bag (Part A) + 5Kg liquid polymer (Part B)

After mixing Part A with Part B, the 25 Kg yields about 16.7 liters of slurry

The rate of consumption will be about 1.5 – 2.0 Kg/ m² for two perpendicular applied coats depending on the substrate.

VICAPROOF-150 should be applied at a minimum of two perpendicular coats.

Allowance should be made for any possible wastage and surface irregularities when estimating.

Various colors are available for large orders.

Application Instructions

Surface preparation:

All substrates should be clean, free from dust, loose particles, grease, oil or any other foreigner matter.

All concrete surface defects (Honey combs, Rock pockets, air voidsetc.) should be repaired following a proper repair procedure, using **VICAREP-F**. Before applying **VICAPROOF-150**, all surfaces should be saturated with water with no running water (saturated surface dry).

Mixing:

- In a suitable container add $\frac{3}{4}$ the quantity of the liquid (part B) and Start mixing with a slow speed drill (350 - 450) rpm.
- While mixing, gradually add the powder (part A) and continue mixing to get rid of any lumps.
- Add the rest of the liquid (part B) and continue mixing until the slurry is homogeneous.

Application:

- The slurry will be applied to the prepared SSD surfaces using a suitable brush at the rate of at least two perpendicular coats with a rate of consumption of 1.5 to 2.0 kg/m² for the two coats.
- Apply the second coat as soon as the previous one is dry enough to receive it.
- Additional coats are optional and depend on the water head and substrate conditions.
- The final coat can be smoothed using a trowel after painting.

Precautions:

- Protect the **VICAPROOF-150** bags (part A) from direct sun rays or any other source of heat before use, this can lead to a very fast setting. Protect the liquid (part B) from frost.
- Avoid working on hot substrates.
- Under any circumstances, never re-temper with water.
- Protect the freshly applied material from frost and rain until totally dry.
- After application, **VICAPROOF-150** should be allowed to self-cure for at least 3 days before any water contact.
- **VICAPROOF-150** must be protected from direct sun light and excessive wind.
- **Avoid contact with gypsum or any other sulfates on substrate, mixing water or curing water in plastic state.**
- **Clean the used tools immediately with water before the material hardens.**

Health and safety

VICAPROOF-150 is alkaline and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs, wash thoroughly with clean water. Should eye contact occur, rinse immediately with plenty of clean water and seek medical advice.

Storage & shelf life

VICAPROOF-150 should be stored in normal temperature and closed shaded dry area in undamaged original packing. It is recommended to be re-tested after 6 months from the production date.

Technical support

For any technical support, please consult our technical office or representatives.

Check our website for the latest version of the Technical Datasheet.

Disclaimer...The information contained herein is included for illustrative purpose only and, to the best of our knowledge, is accurate and reliable. Hemts cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As Hemts has no control over the use to which may put its products, it is recommended that the products be tested to determine if suitable for a specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine suitability of products for specific application and assume all responsibilities in connection therewith.

Hemts Construction Chemicals Ltd.

Head quarter: 35 ElGazayer St. 11435 Maadi, Cairo, Egypt
Factory: CPC industrial compound, 6th of October, Giza, Egypt
Tel: (+202)27030503 - 27542745 - 25180578 info@hemts.net

www.hemts.net

