

VICAPLAGE-22®

Edition 10024

Flexible, Two Component, Waterproofing and Finishing Coat for Swimming pools

Description

VICAPLAGE-22 is a Two component, flexible waterproofing and finishing slurry for concrete structured swimming pools and lagoons, based on a blend of Portland cement & Vicat special binders, 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 spraying. **VICAPLAGE-22** complies with the requirements of standard: **EN 14891** as Liquid-applied water impermeable product class **CM01P**.

Advantages

- Flexible with crack bridging abilities.
- Very low capillary absorption with good breathability.
- Resists carbonation for excellent protection to steel reinforcement
- Formulated for short and long term efficiency.
- Doesn't need surface smoothing before application.
- Economic and easy to apply.
- Good wear resistance.
- Suitable for potable water & Sea water.
- Excellent adhesion.
- Can be used indoor and outdoor.
- Good UV resistance.

Uses

VICAPLAGE-22 is mainly developed to be a single product for waterproofing and finishing of swimming pools and lagoons for the **VICAPLAGE BEACH FEEL** system. **VICAPLAGE-22** can be brush applied or sprayed to give a soft feel, sandy beach effect. **VICAPLAGE-22** can also be colored to multiple colors to fulfil any design requirements.

Standards & Specifications

Color	White & beige (other colors are available upon request)
Toxicity	Non-toxic
Pot life	40mins at 24° C
Fresh density(by Brush)	1.8 Kg/liter
Adhesion to concrete substrate	≥1.0 N/mm ²
Drying Time	≈ 120 mins at 24° C
Substrate temperature	+5° C to +35° C
Mixing ratio	15kg powder (Part A) : 5kg liquid polymer (Part B)
Crack bridging abilities: EN 14891 - A.8	Unreinforced: ≥ 1.25 mm Under standard conditions
Elongation at break: ASTM D412	20 % Under standard conditions
Tensile Strength	2.4 Mpa
E-modulus	14.0 Mpa
Impermeability to water, expressed as capillary absorption (kg/m ² ·h ^{0.5}): EN 1062-3	≤ 0,1 kg/m ² · h ^{0.5}
Impermeability to water under pressure 3.0 bar for 7 days of positive lift: EN 14891-A.7	No penetration

Package & Coverage

VICAPLAGE-22 is supplied in a group of 15kg bag (Part A) + 5Kg liquid polymer (Part B).

After mixing Part A with Part B, the 20 Kg yields about 11 liters of slurry. The rate of consumption is 1.5 - 2.0 kg/m² for two perpendicular applied coats depending on the substrate. If spray applied, the consumption may increase up to 3.0 kg/m². The minimum number of coats is two coats; additional coats may be required for high hydrostatic pressures. Allowance should be made for any possible wastage 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 **VICASEAL MORTAR** or **VICAREP-F**. The final shape depends on the smoothness and regularity of the

substrate. It is recommended to repair and level all the substrates using **VICAREP-F & VICABOND** prior to the application of **VICAPLAGE-22**. Before applying **VICAPLAGE-22**, all surfaces should be saturated with water with no running water (saturated surface dry) and then primed using **PRIMER-A42**.

Priming:

- Mix **PRIMER-A42** with water at a ratio of 1:1 up to 1:2 depending on the substrate absorbency.
- Generously prime all the surfaces using **PRIMER-A42** and start applying **VICAPLAGE-22** as soon as the primer becomes tacky which is about 20 minutes depending on the ambient temperature and humidity.

Mixing:

- In a suitable container add $\frac{3}{4}$ the quantity of the liquid (part B) and mix 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.
- For spray application, up to 1 liter of clean water can be added to facilitate the spraying process.

Application:

- For brush application:
 - The slurry will be applied to the primed surfaces using a suitable brush at the rate of at least two perpendicular coats with a rate of consumption of 0.75 to 1.0 kg/m² for the single coat.
 - Apply the second coat as soon as the previous one is dry enough to receive it (about 2-6hrs depending on temperature and humidity). Additional coats are optional and depend on the water head and substrate conditions. The final coat can be smoothed using a trowel after painting.
 - When reinforcing is required, Coated Fiber Glass Mesh is embedded between the first two coats (Refer to our technical office).
- For Spray application:
 - Use a texture paint spray gun with a 4mm nozzle at 4-5 bar pressure with adjustable material flow.
 - Spray at a distance of about 50 cm, large distances will cause debonding. don't over spray to avoid any lumps.
 - Spray the second and the third coat if needed when the previous coat is totally dry.

Sealing:

- **VICAPLAGE-22** must be well sealed using an appropriate sealer such as **PURVASEAL-PA70** if left exposed.
- **PURVASEAL-PA70** will increase its life time and enhance its wear resistance and UV stability.

Precautions:

- Protect the **VICAPLAGE-22** 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.
- Never apply more than 3kg/m² for one layer.
- Avoid working on hot substrates. Protect the freshly applied material from frost and rain until totally dry.
- Under any circumstances, never re-temper with water.
- After application, **VICAPLAGE-22** should be allowed to self-cure for at least 2 days before any water contact.
- **VICAPLAGE-22** 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

VICAPLAGE-22 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

VICAPLAGE-22 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.

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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

