

# VICALINE A®

Edition 08017

High performance, one component, abrasion resistant cementitious lining.

## Description

**Vicaline A** is a high performance, one component, abrasion resistant cementitious lining based on **Prompt** cement as the main binder, therefore it has all the **Prompt** cement properties. The mix design includes shrinkage compensating agents, quartz fillers, and rheology adjustors. The mix contains no chlorides, ferrous metal or other deleterious materials. The product is pre-blended and ready for mixing on site to produce a non-shrink, easy to apply, homogenous mortar which hardens to a strong abrasion resistant lining. **Vicaline A** may be applied on all types of substrates; concrete, bricks or stones.

A rapid setting version named **Vicaline AR** is available providing a very fast setting time for fast repair applications as well as an antibacterial version.

## Advantages

- Non-shrink.
- Good water resistance.
- Outstanding abrasion and scratch resistance.
- Characteristics improvement over 10 years.
- High early strength with long term strength gain.
- Resists alkalis and acids of PH as low as 4.
- Resists carbonation providing excellent protection to steel reinforcement.
- Formulated for short and long term efficiency – Life time.
- Nontoxic, suitable for food industry and potable water.
- Doesn't need any protection against U.V. after application.
- Continuous sealing of cracks and voids by autogeneous healing due to the slow hydration of Dicalcium silicate(C<sub>2</sub>S).

## Uses

- **Vicaline A** provides an extremely durable, seamless, high strength, impact, scratching and abrasion resistant lining.
- **Vicaline A** can be used as a flooring screed with a thickness from 8 mm up to 30 mm.
- **Vicaline A** is ideally suitable either where the wall is subjected to severe conditions of service.
- **Vicaline A** is supplied in different colors enabling decorative designs to be applied.
- **Vicaline A** can be used indoor and/or outdoor.
- **Vicaline A** is non-toxic and is ideal to use as a lining for the inner walls of grain silos, floor screeds, squash courts...etc.

## Standards & Specifications

<b>Color</b>	Grey (other colors are available upon request)
<b>Initial setting time</b>	≈ 30 min. @ 20° C
<b>Final setting time</b>	≈ 60 min @ 20° C
<b>Toxicity</b>	Non-toxic
<b>Fresh density</b>	2.2 Kg/liter
<b>Abrasion Resistance according to EN13892-3</b>	≤ A22 @28 days ≤ A15 @56 days & improving thereafter.

**Linear Shrinkage** typical value at 28days according to BS EN 12617-4 (%): 0.021%

**Linear Expansion** typical value at 28days according to BS EN 12617-4 (%): 0.004%

**Compressive Strength** typical values (MPa) according to BS EN 196-1

Water to powder ratio = 0.14 by weight

Age						
24 hours	7 days	28 days	56 days	90 days	120 days	180 days
17	26	42	57	77	79	83

\*Compressive strength is increasing thereafter.

## Package & Coverage

**VicaLine A** is supplied in 25 Kg bags.

After mixing with water, the 25 Kg bag yields about 13 liters of mortar covering 2.5 m<sup>2</sup> of about 5.0 mm thickness on an even surface.

Allowance should be made for any possible wastage or surface unevenness when estimating.

## Application Instructions

### **Surface preparation**

In order that maximum bond strength is achieved between the substrate and the lining, all concrete substrates should be sound, clean, and free from laitance, dust, loose particles, grease, oil or any other foreigner matter.

All concrete surface defects (Honey combs, Rock pockets, air voids .....etc.) should be repaired following a proper repair procedure, using **Vicaseal Mortar**. Before applying **VicaLine A**, all surfaces should be saturated with water with no running water (saturated surface dry).

For better adhesion, **VicaLine A** should be applied over a wet coat of **Vicabond**.

### **Mixing**

- In a suitable container add 3.50 – 4.00 liters of potable water and start mixing with a slow speed drill (350 - 450) rpm while adding gradually the content of a 25 Kg bag of **VicaLine A** for enough time to produce a homogeneous mix.
- Mechanical mixing is essential for a rapid and homogeneous mix. Forced action pan mixers are suitable.

### **Application**

- **VicaLine A** will be applied in a single layer.
- It should be pressed firmly with the trowel while troweling to insure a good compaction and bond with the substrate.
- **VicaLine A** can be smoothed after being hard enough for smoothing.
- Once the applied lining is hard, it should be cured by means of water for at least 24 hours, or by using a curing compound.
- **VicaLine A** can be grinded and polished to a shiny surface.

### **Precautions**

- Protect the **VicaLine A** bags from direct sun rays or any other source of heat before use, this can lead to a very fast setting.
- Avoid working on hot substrates.
- Avoid mixing with hot water.
- Never remix the product with water once it started to set.
- **Avoid contact with gypsum or any other sulfates on substrate, mixing water or curing water in plastic state.**

## Health and safety

**VicaLine A** is alkaline when mixed with water 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.

Full health and safety data are given in Product Safety Data Sheet.

## Storage & shelf life

**VicaLine A** 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.

## More information

Please refer to the PROMPT technical document and the CD rom of VICAT special binders.

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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](http://www.hemts.net)

