

High density reprofiling mortar

- waterproof
- excellent workability
- easy to level and finish
- very low rebound
- approved according to German DVGW W 300 (potable water)

CEMLINE MG 4 FF / H

Compressive strength class R4 ≥ 45 MPa Chloride ion content $\leq 0.05\%$ Adhesive bond $\geq 2.0/\geq 1.5$ MPa Corbonation resistance passed Modulus of elasticity Thermal compatibility Part 1: Freeze thaw with

 $\begin{array}{lll} \text{de-icing solt immersion} & \geq 2.0 \, / \, \geq 1.5 \, \text{MPa} \\ \text{Capillary obsorption} & \leq 0.5 \, \text{kg/m}^2 \cdot \text{h}^{0.5} \\ \text{Reaction to fire} & \text{class A1} \\ \text{Dangerous substances} & \text{complies with 5.4} \\ \end{array}$

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Vandex Isoliermittel-GmbH

Industriestr. 19-23

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325/370
EN 1504-3:2005/ZA.1a

VANDEX CEMLINE MG 4 FF / MG 4 FF H
CC repair mortar for structural repair
(based on hydraulic cement)

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PRODUCT DESCRIPTION

VANDEX CEMLINE MG 4 FF grey / VANDEX CEMLINE MG 4 FF H white is a waterproof cementitious, ready-to-use reprofiling mortar.

AREAS OF APPLICATION

- substrates: concrete
- reprofiling and coating of soffits, walls and slabs
- suitable as smooth finish for drinking water tanks and industrial water installations

PROPERTIES

VANDEX CEMLINE MG 4 FF/H is applied in a layer thickness of 10–30 mm. It is waterproof when applied in min. 10 mm layer thickness. The material has a very dense structure, thus a very low porosity and can easily be flattened. VANDEX CEMLINE MG 4 FF/H is approved for application in contact with drinking water.

SURFACE PREPARATION

The substrate to be treated must be sound and even, openpored, roughened and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance must be removed by suitable means.

Thoroughly moisten the substrate, it must be damp but not wet at the time of application. Any surface water on horizontal surfaces must be removed.

MIXING

Mix 25 kg of VANDEX CEMLINE MG 4 FF with 3.5–4.5 litres / VANDEX CEMLINE MG 4 FF H with 3–4 litres of tap water in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a mechanical mixer.

APPLICATION

VANDEX CEMLINE MG 4 FF/H is usually applied by a fine mortar spraying device, but it can also be applied by trowel. Apply a minimum of 10 mm (approx. 20 kg/m²) and a maximum of 15 mm (approx. 30 kg/m²) in one working cycle. If several coats are required it is recommended to apply the next coat whilst the previous coat is still damp at the surface.

<u>Trowel application</u>

First a scratch coat is applied for maximum adhesion to the substrate. Ensure that all cavities in the substrate are filled in order to exclude any trapped air.

On horizontal and slightly inclined surfaces it is possible to apply a bonding bridge with VANDEX BB 75 Z. Apply by brush a small quantity of material into the surface until it is completely moist. The following VANDEX CEMLINE MG 4 FF/H layer must be applied wet in wet.

Spray application

VANDEX CEMLINE MG 4 FF/H can be applied with a suitable fine mortar spraying device. For maximum spray pattern it should be possible to adjust volume of product as well as air pressure and volume. The nozzle diameter is approx. 10 mm.

The material is applied in a circular motion with the spray nozzle held at a 90° angle to the substrate. The material is then flattened.

Do not apply at temperatures below +5 °C or to a frozen substrate.

CONSUMPTION

Approx. 2 kg/m² of VANDEX CEMLINE MG 4 FF/H is required to produce a layer thickness of 1 mm.

CURING

Provide a relative humidity of >85% in enclosed areas. Avoid formation of condensate and water film during the first 7 days after application.

While setting, surfaces exposed to weather must be kept moist for at least 5 days and be protected from extreme weather conditions (e.g. sun, wind, frost). The freshly treated surfaces should be protected from rain for a minimum period of 24 h.

FILLING OF WATER RETAINING STRUCTURES

Filling can take place when the surface treatment has hardened sufficiently, usually not less than 14 days after application. However, if earlier filling is specifically required, filling may be considered after not less than 7 days, provided the surface is thoroughly checked for hardness. A careful cleaning and disinfection prior to the first operation is essential.

Observe national laws and regulations.

PACKAGING

25 kg PE-lined paper bag

STORAGE

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

HEALTH AND SAFETY

Please refer to Safety Data Sheet on www.vandex.com.

TECHNICAL DATA		CEMLINE MG 4 FF (R4)	CEMLINE MG 4 FF H (R3)*
Appearance		grey powder	white powder
Grain size d _{max.}	[mm]	2	2
Density of fresh mortar	[kg/l]	approx. 2.2	approx. 2.25
Application time, 20 °C	[min.]	approx. 45	approx. 45
Curing time, 20 °C	[h]	approx. 2-6	approx. 3–6
Compressive strength 28 d	[MPa]	approx. 55	approx. 65
Bending tensile strength 28 d	[MPa]	approx. 7	approx. 7
Static modulus of elasticity 28 d	[GPa]	approx. 35	approx. 40
Waterproof 28 d, 1.5 bar (water penetration)	[mm]	3–4	3–4

affect these values.

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



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^{*} overall classification EN 1504-3:2005 (cf. bond strength)