CEMLINE MG 4

Fibre reinforced spray and repair mortar

- waterproof
- low shrinkage
- excellent workability
- low rebound
- fulfils the German potable water requirements according to DVGW W300-5 (P):08-2020, type 3

Compressive strength	class R4 ≥ 45 MPa
Chloride ion content	≤ 0.05 %
Adhesive bond	≥ 2.0 MPa
Carbonation resistance	passed
Modulus of elasticity	≥ 20 GPa
Thermal compatibility	
Part 1: Freeze thaw with	
de-icing salt immersion	≥ 2.0 MPa
Part 4: Dry thermal cycling	≥ 2.0 MPa
Capillary absorption	≤ 0.5 kg/m²·h^{0,5}
Reaction to fire	class A1
Dangerous substances	complies with 5.4

CE
0761

Vandex Isoliermittel-GmbH
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EN 1504-3:2005/ZA.1a
CC repair mortar for structural repair
(based on hydraulic cement)

PRODUCT DESCRIPTION
VANDEX CEMLINE MG 4 is a waterproof, cementitious, ready-mixed fibre reinforced spray mortar.

AREAS OF APPLICATION
- reprofiling and coating of concrete surfaces
- reprofiling of localised concrete defects
- horizontal, vertical and overhead application

PROPERTIES
Owing to its composition of cement, quartz with graded grain-size distribution, fibres and selected additives VANDEX CEMLINE MG 4 is a low shrinkage spray mortar with low rebound and good freeze / thaw resistance. The modification with fibres results in an increased resistance against dynamic load and shear stress. It is waterproof when applied in min. 8 mm thickness.

VANDEX CEMLINE MG 4 is approved for application in contact with potable water and fulfils the corresponding German requirements according to DVGW W300-5 (P):08-2020, type 3.

SURFACE PREPARATION
The substrate to be treated must be sound and even, open-pored, 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. Water leaks must be stopped e.g. with VANDEX PLUG.

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 with 3.5–4.5 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 is usually applied with suitable spray equipment but it can also be applied by trowel.

Apply a minimum of 6 mm (approx.12 kg/m²) and a maximum of 30 mm (approx. 60 kg/m²) in one working cycle. For small areas such as coves or local repairs VANDEX CEMLINE MG 4 may be applied in layer thick-nesses up to 50 mm. If several coats are required it is recommended to apply subsequent coat whilst previous coat is still damp at the surface. The previous coat must not be damaged during application of the following coat. The waiting time before applying the following coat depends on local climatic conditions such as humidity, temperature, etc. The previous coat must be textured by suitable means whilst still plastic to form a key.
To maintain workability of the material do not add water, simply re-stir the mixture.

Trowel application
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.

Spray application
VANDEX CEMLINE MG 4 can be applied with a suitable fine mortar spraying device. For maximum spray pattern and minimum rebound it should be possible to adjust volume of product as well as air pressure and volume. The nozzle diameter is approx. 10–14 mm.

The first layer is applied in circular motion with the spray nozzle held at a 90° angle to the substrate. The material is then flattened and trowelled or keyed for a further layer.

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

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

CURING
Keep damp for at least 5 days and provide suitable protection against extreme weather conditions (e.g. sun, wind, frost) while setting. The freshly treated surfaces should be protected from rain for a minimum period of 24 h.

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 & SAFETY PRECAUTIONS
The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE
Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

Tremco CPG Australia Pty Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG Australia written instructions and (b) in any application recommended by Tremco CPG Australia, but which is proved to be defective, will be replaced free of charge.

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. Tremco CPG Australia makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

TECHNICAL DATA		
Exposure class		X_{TWB}
Appearance		grey powder
Aggregate size dmax.	[mm]	2
Density of wet mix	[kg/l]	approx. 2.3
Workability at 20°C	[min.]	approx. 45
Setting time at 20°C	[h]	approx. 2–4
Compressive strength 28 d	[MPa]	approx. 70
Bending tensile strength 28 d	[MPa]	approx. 8
Static modulus of elasticity 28 d	[GPa]	approx. 38
Waterproof 28 d, 1.5 bar (water penetration)	[mm]	3–4
Adhesive tensile strength		>1,5 MPa, Mindestwert >1,7 MPa
Further data		refer to CE marking

All data is averaged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may 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 certain cases might be greater.

Vandex

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