


Reprofiling mortar for drinking water tank

- according to DVGW W 300
- low porosity
- levelling uneven surfaces
- applicable by mortar gun

 0761 Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 09 090 EN 1504-3:2005	EN 1504-3:ZA.1a CC repair mortar for structural repair (based on hydraulic cement)	
	Compressive strength Chloride ion content Adhesive bond Carbonation resistance Modulus of elasticity Thermal compatibility Part 4: Dry thermal cycling Capillary absorption Reaction to fire Dangerous substances	class R4 ≥ 45 MPa ≤ 0.05 % ≥ 2.0 MPa passed ≥ 20 GPa ≥ 2.0 MPa ≤ 0.5 kg/m ² ·h ^{0.5} class A1 complies with 5.4

PRODUCT DESCRIPTION

VANDEX CEMLINE MORTAR is a cementitious, ready-mixed repair mortar.

AREAS OF APPLICATION

- substrates: concrete
- as reprofiling and coating of horizontal and vertical surfaces
- as substrate for VANDEX CEMLINE TOP GREY/WHITE
- drinking water reservoirs, water treatment plants, water sourcing

PROPERTIES

VANDEX CEMLINE MORTAR is applied in layers of 6 to 12 mm in a single working step. The material has a good resistance to abrasion, and can be subjected to heavy mechanical loads. Due to its composition of cement, quartz with a graded grain size distribution and selected additives, VANDEX CEMLINE MORTAR is resistant to frost and heat after setting and is permeable to water vapour. The product is tested for use in contact with drinking water.

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 MORTAR 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 MORTAR is applied with trowel or suitable spray equipment.

Apply a minimum of 6 mm (approx. 12 kg/m²) and a maximum of 12 mm (approx. 24 kg/m²) in one working cycle.

For small areas such as coves, fillets, local repairs and shutter tie holes VANDEX CEMLINE MORTAR may be applied in layer thicknesses exceeding the above value.

Pour VANDEX CEMLINE MORTAR over horizontal surface, then compact and strike off. After initial hardening it can be trowelled, or provided with a broom finish to increase the non-skid quality. Apply VANDEX CEMLINE MORTAR to vertical surfaces like normal render. If several coats are required it is recommended to apply the next coat whilst the previous coat is still damp at the surface.

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 MORTAR 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 first layer of Vandex is applied in a 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 MORTAR is required to produce a layer thickness of 1 mm.

CURING

Provide a relative humidity of > 85% in enclosed areas. Avoid formation of water films or condensation on top of coating during 7 days after application.

Keep surfaces exposed to weathering 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.

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

VANDEX CEMLINE MORTAR contains cement. Irritating to respiratory system and skin. Risk of serious damage to eyes. – Keep out of the reach of children. Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. If swallowed, seek medical advice immediately and show this container or label. – For further information please refer to Safety Data Sheet on www.vandex.com.

TECHNICAL DATA		
Appearance		grey powder
Aggregate size d _{max.}	[mm]	2
Density of wet mix	[kg/l]	approx. 2.3
Workability at 20 °C	[min.]	approx. 45
Setting time at 20 °C	[h]	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. 37
Capillary absorption	[kg/m ² ·h ^{0.5}]	0.1
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 in certain cases might be greater.



An **RPM** Company

HEAD OFFICE AND INTERNATIONAL SALES:

Vandex International Ltd

P.O. Box · CH-4501 Solothurn/Switzerland

+41 32 626 36 36 · info@vandex.com · www.vandex.com

PRODUCTION:

Vandex Isoliermittel-Gesellschaft m.b.H.

P.O. Box · D-21487 Schwarzenbek/Germany

