

Fast setting repair mortar for traffic area repairs

- >30 MPa compressive strength after 1 hour
- trafficable after 1 hour
- for horizontal concrete surfaces
- abrasion and thaw salt resistant
- high final strength
- easy application
- usable in sub-zero temperatures down to -14°C

Compressive strength MPa	class R4 ≥ 45	CE 0761 Vandex Isoliermittel-GmbH Industriestr. 21 DE-21493 Schwarzenbek 14 390 EN 1504-3:2005/ZA.1a CC repair mortar for structural repair (based on hydraulic cement)
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	
Capillary absorption	≤ 0.5 kg/m ² · h ^{0.5}	
Reaction to fire	class A1	
Dangerous substances	complies with 5.4	

PRODUCT DESCRIPTION

VANDEX CEMREP 202 is a cementitious, fibre reinforced, ready-mixed repair mortar for horizontal surfaces.

AREAS OF APPLICATION

- substrate: concrete
- concrete repair mortar for traffic areas like roundabouts, roads, parkings, garages, ramps and industrial floors
- recoatable repair mortar for horizontal concrete surfaces
- in situations where minimum shutdown time is essential
- protection against water and humidity
- usable in cold environments and situations

PROPERTIES

VANDEX CEMREP 202 has very high initial and final strength and is applied in one working cycle in a layer thickness of 5 up to 100 mm. The material offers high abrasion and mechanical resistance and excellent adhesion to substrate.

Owing to its composition of specific cement, quartz with graded grain-size distribution and selected additives, VANDEX CEMREP 202 is durable, resistant to frost, thaw salt and heat after setting, but all the same permeable to vapour.

SURFACE PREPARATION

The substrate to be treated must be sound and even, open-pored, roughened and its surface free of 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 CEMREP 202 with 1.9-2.1 litres of tap water in a clean container for at least 5 minutes to a lump-free, homogeneous consistency. Use an appropriate mixer, e.g. a double-whirl or forced action mixer. Do not add more water ahead of time as the plastic consistency is only achieved after approx. 2-3 min. of mixing.

Install mixing place nearest possible to application place. At temperatures around 0 °C, it is possible to use warm mixing water. Below -5 °C water and powder temperature must be +20 °C.

APPLICATION

VANDEX CEMREP 202 is hand applied.

A minimum of 5 mm and a maximum of 100 mm can be applied in one working cycle. For higher thickness, it is possible to add up to 5 kg of coarse sand (4-8 mm, round, washed) per 25 kg.

For maximum adhesion first apply VANDEX CEMREP 202 to the substrate using a stiff brush. Pour then the product over the prepared surface, compact and strike off. As the product starts quickly to harden, all this must be carried out speedily.

Do not apply to a frozen substrate.

CONSUMPTION

Approx. 2.2 kg/m² VANDEX CEMREP 202 is required to produce a layer thickness of 1 mm.

CURING

After 1 hour of curing, moisten carefully. No need of further curing. At sub-zero temperatures cover with winter construction insulation mats.

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		
Appearance		grey powder
Grain size d_{max}	[mm]	2
Density of wet mix	[kg/l]	approx. 2.4
Application time at 20 °C	[min.]	approx. 10
Setting time at 20 °C / -14 °C	[min.]	approx. 15 / approx. 120
Compressive strength at 20 °C	[MPa]	1 h: >30 24 h: >55 7 d: >60 28 d: >70
Bendile tensile strength at 20 °C	[MPa]	1 h: >4 24 h: >7 7 d: >9 28 d: >10
Adhesion strength at 20 °C / -14 °C	[MPa]	28 d: >2 / 7d: >1.9
Dyn. modulus of elasticity	[GPa]	28 d: >50
Linear expansion	[%]	approx. 0.05
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.



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