

### Cementitious, lightweight repair mortar

- specially formulated for overhead application
- 1 component
- excellent workability
- environmentally friendly packaging

Compressive strength	class R3 ≥ 25 MPa	<b>CE</b> 0761 Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 14 018 EN 1504-3:2005/ZA.1a CC repair mortar for structural repair (based on hydraulic cement)
Chloride ion content	≤ 0.05 %	
Adhesive bond	≥ 1.5 MPa	
Carbonation resistance	passed	
Modulus of elasticity	≥ 20 GPa	
Thermal compatibility		
Part 1: Freeze thaw with de-icing salt immersion	≥ 1.5 MPa	
Part 4: Dry thermal cycling	≥ 2.0 MPa	
Capillary absorption	≤ 0.5 kg/m <sup>2</sup> · h <sup>0.5</sup>	
Reaction to fire	class A1	
Dangerous substances	complies with 5.4	

### PROPERTIES

Because of its light weight, VANDEX CRS REPAIR MORTAR HB is especially suited for overhead repairs of larger damaged areas. When cured, VANDEX CRS REPAIR MORTAR HB has the same properties as a cement mortar or light-weight concrete (refer to Technical Data).

### SURFACE PREPARATION

The substrate must be sound and clean. Bitumen oil, grease, paint etc. must be removed. Strip or sandblast all surface contaminations, laitance and weak particles.

Prior to the application of VANDEX CRS REPAIR MORTAR HB, dampen the repair area; the substrate should be damp but not wet at the time of application.

### MIXING

Mix 20 kg of VANDEX CRS REPAIR MORTAR HB with 3.5–4.5 litres of clean water for at least 3–5 minutes, using a slow speed mixer. Following a brief stiffness, stir once more. Do not add more water.

Thoroughly mix the content of the entire bag before using partial quantities of the dry mortar. When mixing large quantities, a suitable slow rotating, mechanical mixer should be used. Depending on temperature the potlife is approx. 30 minutes.

Contains lightweight aggregates. Whenever possible mix whole bags to avoid segregation.

### APPLICATION

VANDEX CRS REPAIR MORTAR HB may be trowelled or sprayed on to the substrate in layer thicknesses up to 5 cm per coat. For greater thicknesses the mortar is applied in several layers.

First a scrape coat of VANDEX CRS REPAIR MORTAR HB is applied on to the moist substrate for maximum adhesion. Immediately following the scrape coat VANDEX CRS REPAIR MORTAR HB is applied to the specified layer thickness. If the batch stiffens during processing, restir, do not add water. The potlife is approx. 30 minutes.

After initial set prepare by keying the mortar application for subsequent layers.

Do not use at temperatures below +5 °C or on a frozen substrate.

### CONSUMPTION

Approx. 14.5 kg/m<sup>2</sup> VANDEX CRS REPAIR MORTAR HB (dry weight) resp. approx. 17 kg/m<sup>2</sup> VANDEX CRS REPAIR MORTAR HB (wet mix) is required to produce a layer of 10 mm thickness.

### CURING

Immediately after application the mortar must be protected from rapid drying out due to high temperatures or strong winds, for 2–3 days, with the aid of plastic sheeting or moist burlap.

### PACKAGING

20 kg PE lined paper bags

### STORAGE

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

### HEALTH AND SAFETY

VANDEX CRS REPAIR MORTAR HB 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](http://www.vandex.com).

TECHNICAL DATA		
Appearance		grey powder
Bulk density	[kg/l]	approx. 1.1
Density of wet mix	[kg/l]	approx. 1.7
Compressive strength	[N/mm <sup>2</sup> ]	> 30
Bending tensile strength	[N/mm <sup>2</sup> ]	> 5
Adhesive strength	[N/mm <sup>2</sup> ]	1.2
Modulus of elasticity (dynamic)	[N/mm <sup>2</sup> ]	20'000
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

