

## Cementitious fast setting grouting material

- excellent flowability
- slightly expanding
- shrinkage compensated
- high early strength 1 h > 10 MPa
- setting time < 30 minutes

Pull-out	≤ 0.6 mm	<b>CE</b> 0761 Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 14 388 EN 1504-6:2006/ZA.1a Pouring mortar as anchoring product (based on hydraulic cement)
Chloride ion content	≤ 0.05 %	
Dangerous substances	complies with 5.3	
Reaction to fire	class A1	

### PRODUCT DESCRIPTION

VANDEX GROUT 20 R is a cementitious, shrinkage compensated fast setting expanding grout according to EN 1504-6.

### AREAS OF APPLICATION

VANDEX GROUT 20 R is used for bedding and grouting construction elements.

- filling or under-pouring of cavities
- in road, pavement construction
- setting of manhole covers and frames
- anchor rod grouting
- aligning and setting of domestic supply systems, potable and waste water

Grouting thickness: 10–60 mm

### PROPERTIES

VANDEX GROUT 20 R is a rapid grouting material with high initial strength. It is shrinkage compensated and exhibits a controlled increase in volume. The setting behaviour can be influenced by the temperature of the mixing water. It is water-proof, free of chlorides and high-alumina cement as well as resistant to frost and de-icing salts.

### SURFACE PREPARATION

The mineral substrate to be treated must be free of dirt, grease and other adhesion reducing substances (high pressure water jetting etc.). The prepared surface must be sufficiently roughened and open textured. Moisten the concrete surface to saturation. At the time of application, the substrate must be damp, but any surface water must be removed.

### MIXING

Pour 3.75–4.5 l of tap water into a clean container and add – while mixing – 25 kg of VANDEX GROUT 20 R. Mix with a mechanical mixer to a lump-free, homogeneous consistency. Mixing time is 5 minutes. Do not add more water before 3 minutes of initial mixing. Do not exceed max. water quantity.

At low temperatures it is possible to use warm mixing water or VANDEX ACCELERATOR for further acceleration. Please contact our technical department for further information.

### APPLICATION

The VANDEX GROUT 20 R is then poured into the void. Grouting is usually done into previously constructed formwork which has to be sealed and must not be absorbent.

Due to its good flowability, it is not necessary to vibrate the material.

After application, clean tools thoroughly with water.

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

Grouting thickness can be increased by adding coarse sand (4–8 mm, round, washed); quantity: up to 10 kg sand per 25 kg of VANDEX GROUT 20 R. Only add coarse sand after a mixing time of 2 minutes. To achieve specific flow characteristics, the quantity of water to be added may vary. Please contact our technical department for further information.

### CONSUMPTION

Calculated quantity (dry mortar)

per m<sup>3</sup> of VANDEX GROUT 20 R: approx. 1800 kg

### CURING

Curing of the exposed grout edges can be undertaken, as well as all hydraulically setting cement mortars, by laying moist hessian over it, followed by polythene sheeting. Exposed grout is to be protected from drying too fast. Curing compounds may be used as well.

### 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 GROUT 20 R 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).

<b>TECHNICAL DATA</b>		
Appearance		grey powder
Density of wet mortar	[g/ml]	approx. 2.1
Aggregate size d <sub>max.</sub>	[mm]	2
Grouting thickness	[mm]	10–60
Application time at 20 °C	[min.]	approx. 10
<b>Hardened grout:</b>		
Compressive strength 1 h	[MPa]	approx. 10
Compressive strength 1 d	[MPa]	approx. 20
Compressive strength 7 d	[MPa]	approx. 35
Compressive strength 28 d	[MPa]	approx. 40
Dynamic modulus of elasticity 28 d	[GPa]	approx. 32
Expansion after 28 d	[%]	+ 0.04
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

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