

Cementitious grouting material

- excellent flowability
- shrinkage compensated

Pull-out	≤ 0.6 mm	 0761 Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 14 333 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 is a cementitious, shrinkage compensated grouting material.

AREAS OF APPLICATION

VANDEX GROUT 20 is used in civil and structural engineering for bedding and grouting construction elements.

- grouting of steel structures
- grouting of bridge bearing beds
- grouting of rails and slabs (crane rail)
- anchor grouting for machines and threaded rods
- concrete repair

Grouting thickness: 10–60 mm

PROPERTIES

VANDEX GROUT 20 is shrinkage compensated and exhibits a controlled increase in volume. It is waterproof, 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. 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 4.0–5.25 l of tap water into a clean container and add – while mixing – 25 kg of VANDEX GROUT 20. Mix with a mechanical mixer to a lump-free, homogeneous consistency. Mixing time is approx. 5 minutes. Do not add more water before 3 minutes of initial mixing. Do not exceed max. water quantity.

APPLICATION

The grouting material is then poured into the void. Grouting beneath steel or machines is usually done into previously constructed formwork which has to be sealed and must not be absorbent. If the particular void cavity is not equal sided, the VANDEX GROUT 20 has to be placed in one continuous pour through the longer side. Due to its good flowability, it is not necessary to vibrate the material. In case of extensive works, VANDEX GROUT 20 alternatively can be placed mechanically using common wet mortar pumps. A high density grout without air entrapment is achieved by including a sufficient number of ventilation

holes or slots. 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. 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 m³ of VANDEX GROUT: approx. 1760 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. Curing time is at least 5 days.

Alternatively, application of curing products is possible.

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 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
Density of wet mortar	[g/ml]	approx. 2.1
Aggregate size d _{max.}	[mm]	2
Grouting thickness	[mm]	10–60
Application time at 20 °C	[Min.]	approx. 30
Hardened grout:		
Compressive strength 3 d	[MPa]	approx. 40
Compressive strength 7 d	[MPa]	approx. 50
Compressive strength 28 d	[MPa]	approx. 65
Dynamic modulus of elasticity 28 d	[GPa]	approx. 33
Expansion after 28 d	[%]	+ 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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