

## Rapid waterproofing slurry

- after 3 hours – resistant to load
- for concrete, masonry and render
- as sealing and interior coating
- designed for use in sewers and manholes

Compressive strength	class R3 $\geq 25$ MPa	<b>CE</b> 0761 Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 14 211 EN 1504-3:2005/ZA.1a CC fine mortar for non-structural repair (based on hydraulic cement)
Chloride ion content	$\leq 0.05$ %	
Adhesive bond	$\geq 1.5$ MPa	
Carbonation resistance	no performance determined (NPD)	
Modulus of elasticity	$\geq 20$ GPa	
Thermal compatibility		
Part 1: Freeze thaw with de-icing salt immersion	$\geq 2.0$ MPa	
Capillary absorption	$\leq 0.5$ kg/m <sup>2</sup> · h <sup>0.5</sup>	
Reaction to fire	class A1	
Dangerous substances	complies with 5.4	

## PRODUCT DESCRIPTION

VANDEX RAPID S is a cementitious, ready-mixed, rapid setting surface waterproofer with hydrophobic properties, resistant to water and moisture.

## AREAS OF APPLICATION

VANDEX RAPID S is applied to surfaces such as concrete, masonry and render, which have to be sealed and protected against the influence of domestic sewage as well as water and moisture. It forms a very smooth surface.

## PROPERTIES

Owing to its composition of cement, quartz with graded grain-size distribution and special chemical ingredients of an inorganic nature, VANDEX RAPID S is a waterproof low shrinkage material. It can be employed against water pressure. The initial and final bonding capability as well as compressive strength of VANDEX RAPID S is excellent, making it suitable to be applied to horizontal as well as vertical surfaces. It is durable, resistant to frost and heat after setting, but all the same permeable to vapour.

The setting process is accelerated. Resulting in VANDEX RAPID S being resistant to load after 3 hours (20 °C / 65% rel. humidity). VANDEX RAPID S is resistant to domestic sewage.

## SURFACE PREPARATION

The substrate to be treated must be sound and even, open-pored and its surface free from voids, large cracks or ridges. Bitumen, oil, grease, remains of paint, laitance and unsound concrete have to be removed by suitable means (e.g. water jetting, sand blasting). 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 RAPID S with 4.5–5.5 litres of clean water in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a mechanical mixer. If the mixture starts to set, do not add more water, restir to restore workability.

## APPLICATION

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

VANDEX RAPID S is applied by trowel in one or two coats. A maximum of 2 mm (4 kg/m<sup>2</sup>) can be applied in one working cycle. Apply second coat whilst first coat is still

damp at the surface. Allow approximately 1–2 hours between the coats, the second coat should not damage the first coat.

## CONSUMPTION

2 kg VANDEX RAPID S/m<sup>2</sup> are required to produce a layer thickness of 1 mm.

## CURING

Keep damp and provide suitable protection against extreme weather conditions (e.g. rain, sun, wind, frost) while setting. Avoid contact with flowing water until 3 hours after application.

## 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 RAPID S 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		
Aggregate state		powder
Colour		grey
Bulk density	[kg/l]	approx. 1.45
Setting time	[min.]	approx. 30–60
Compressive strength	[N/mm <sup>2</sup> ]	3 h: 3.0
		6 h: 19.5
		28 days (stored in water): 30.0
Bending tensile strength	[N/mm <sup>2</sup> ]	28 days (stored in water): 5.5
Adhesive strength	[N/mm <sup>2</sup> ]	28 days: >1.5
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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