

Elasticized Waterproofing Slurry

- suitable for use in drinking water reservoirs
- high low-temperature flexibility
- efflorescence-free surface waterproofer with elastic properties
- suitable for areas of potential cracking
- for concrete, masonry and render

Product Description

VANDEX CEMELAST is a cementitious, two-component, polymer-modified-efflorescence-free surface waterproofer with hydrophobic properties, resistant to water and moisture, made of VANDEX BB 75 as a dry component and VANDEX CEMELAST LIQUID.

Areas of Application

VANDEX CEMELAST is applied to surfaces such as concrete, masonry and render, which have to be sealed and protected against the influence of water and moisture. Owing to its elastic properties it is used in zones posing cracking or deforming problems. VANDEX CEMELAST is tested for use in drinking water reservoirs.

Properties

Owing to its composition of cement, quartz with well graded aggregate and special chemical ingredients, as well as the admixture of the polymer component, a waterproof and elastic coating is achieved (tested up to 1.5 bar). VANDEX CEMELAST is suitable for areas of potential cracking. There is good compatibility with VANDEX BB 75. The initial and final bonding ability of VANDEX CEMELAST is excellent, making it suitable to be applied on horizontal as well as vertical surfaces. It is durable, resistant to frost and heat after setting and at the same time vapour permeable. VANDEX CEMELAST is an active barrier to carbon dioxide (CO₂). VANDEX CEMELAST is not a decorative material.

Surface Preparation

The substrate to be sealed must be sound and even, and its surface free from voids, large cracks or ridges. Bitumen, oil, grease or remains of paint have to be removed by suitable means. Laitance and unsound concrete have to be removed by bush hammering or sand blasting. Surfaces marked by ridges, voids and so on must first be levelled. The surface to be coated can be slightly damp, but not so wet that all the pores are saturated.

Mixing

Before use, stir the VANDEX CEMELAST LIQUID vigorously to avoid segregation.

Place 25 kg of VANDEX BB 75 (dry component) in a clean container, add 9 kg of VANDEX CEMELAST LIQUID and stir for at least 3 minutes with a mechanical mixer.

Application

VANDEX CEMELAST may be applied with trowel or spray equipment. Do not apply at temperatures below +5°C, or to a frozen substrate. The mixture is applied in at least two coats of an overall thickness of 2-3 mm. The maximum thickness of each coat is 2 mm. Allow approximately 2 - 4 hours between coats. The second coat should not damage the first.

Subsequent treatment must take place in such a way that the VANDEX CEMELAST coat is able to dry out completely before it comes into contact with water again.

Consumption 4 – 6 kg VANDEX CEMELAST/m² is required to produce a coat 2 – 3 mm thick.

Packaging VANDEX BB 75 (dry component): 25 kg PE-lined paper bags
 VANDEX CEMELAST LIQUID (polymer component): 9 kg PE-container

Storage **Dry component:** Store in a dry place. Shelf life, if kept in unopened, original packagings, is 12 months.

Liquid component: Store in a frost-free place. Shelf life in unopened, original packagings is 6 months. Protect from direct sunlight.

Technical Data

	VANDEX BB 75 (dry component)	CEMELAST LIQUID (polymer component)
Aggregate state	powder	milky liquid
Colour	grey	white
Bulk density	approx. 1.4 kg/l	
Density at 20°C		approx. 1 kg/l
pH		9 - 10
	VANDEX CEMELAST (wet mix)	VANDEX CEMELAST (hardened)
Colour	grey	grey
Density of wet mix	approx. 1.65 kg/l	
Setting time	approx. 2 - 4 hours	
Adhesive strength		1.2 N/mm ²
Elongation at rupture at 20°C		13 %
Tear resistance at 20°C		0.9 N/mm ²
Crack bridging capacity 20°C/-20°C		
Crack width in the concrete:		
- with discoloration of the coating		0.3 mm
- upon crack formation in the coating		0.5 mm
All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.		

Health and Safety

VANDEX CEMELAST contains cement.

Irritating to eyes and skin. May cause sensitization by skin contact. Keep out of reach of children. 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. Provide good ventilation if inside. For further information please refer to Material Safety Data Sheet.

The information contained herein is based on our longterm 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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