



## KARSTEN TUBE

# Checking surfaces with hydrophobic treatment

- Shows the result of your work to your customers
- Measuring is knowing
- For all stone surfaces
- Fixes water absorption before and after hydrophobic sealing

# KARSTEN TUBE

## DESCRIPTION

A tool to determine the porosity and/or water absorption behaviour of all stone surfaces. We recommend you use it before and after making surfaces hydrophobic.

## RECOMMENDED USE

According to Dr Karsten, the testing of water absorption through mineral constructions materials using the test tube provides the exact construction material data, respectively a building section, with respect to the moisture absorption, where it indicates the amount of water passing through the construction material (air dry at the start).

The test tube is supplied as a vertical model.

The method can be used both in practice and in the laboratory.

## RECOMMENDED SYSTEM

Use elastic putty to stick the test tube to façade or wall to be tested.

To this end, the putty is rolled up into a roll beforehand and laid on the rim of the tube.

Pressing the tube onto the surface causes the putty to create a watertight adhesion.

During the testing, lightly press on the tube so that the putty does not sag, which would lead to incorrect data.

The contact area of the water with the surface must be minimally 1 cm<sup>2</sup>.

To test the water absorption capacity, fill the test tube using a plastic laboratory spray bottle or similar.

The amount of water penetrating is read off at regular intervals.

The test must be carried out at different places to achieve a representative picture of the total surface.

In the case of a brick façade, carry out tests on the entire brick as well as on the connection points of bed and perpend joints of the building brick.

For non-porous surfaces, such as concrete, carry out the tests on places that provide a geometric distribution for the entire surface.

30 mm filling height = stripe	4.0	= water pressure at wind speed	83.5 km/h
40 mm	3.5		92
50 mm	3.0		102
92 mm	1.0		135
113 mm	0.0		155

The impregnated façade function (reduction of the water absorption) is determined to be adequate when the water column drops max. 0.2 ml during the two-minute test period and fills up 40 mm (stripe 3.5 in driving rain), i.e. the water column drops by two stripes.

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