

Shrinkage Cone

for measurement of shrinkage and expansion of building materials from the first minutes and hours after water addition.

The dimension change of the building materials is detected contact-less with a laser beam. The special geometry of the sample container ensures that the change in the record distance corresponds exactly to the relative change in length. The sample container can be connected to a circulating unit and thus, the temperature of the sample can be controlled during the measurement. Simultaneous recording of the measurement of the temperature and humidity of the environment, the temperature and the weight change of the sample are possible. All measurement data are digitized and stored in the data logger.



Operation

The sample material is filled into a cone-shaped sample container lined with a partition foil. A reflector is placed on the sample surface and the container is placed under the laser. The optimal measuring range of the laser is set using an adjustment knob on the frame of the device. The zero adjustment and start of the measurement is carried out on the computer by pressing a button. The measured values can also be read in and exported during the measurement.



Advantages

- contact-less measurement with a laser
- measurement start immediately after mixing with water
- incl. data logger with network interface for integration into the intranet or lab network
- no special computer or special software are necessary
- optional available: cone-shaped sample container for concrete with a volume of 680 ml
- well suitable for research, development and quality control

Technical specifications*:

measurement range	10 mm
resolution	< 2 µm
sampling rate	1 s ... 4 h
sample volume mortar or paste	350 ml
sample volume concrete	680 ml
dimension of the base plate	approx. 42 cm x 27 cm
electrical connection	110 V ... 240 V / 50 Hz ... 60 Hz

Scope of delivery:

Measuring device incl. data logger, sample container for mortar or paste, thermocouple type K, combined temperature and humidity sensor for the environment, connection port for a balance (balance not included), partition foil, reflector and user manual.

Order informations:

order no.:	description
S0050	shrinkage Cone
S0051	sample container for concrete
S0052	sample container for mortar or paste
S0053	partition foil for sample container 350 ml
S00531	partition foil for sample container 680 ml
S0055	reflector

Please contact your dealer or Schleibinger for further information or visit our home page:

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*Changes are reserved for technical progress.

REV02/10-11-2020