

If the thickness of floor screed is less than 30 mm, iron gratings, heating pipes and other metal can cause an incorrect measuring value. Therefore please look for a measuring position without any metal in the measuring field.

The device displays an average value of a layer of 30 mm. The moisture of deeper layers may be considerably higher than that value.

The water content of deeper layers can only be determined by the CM method or in a drying chamber.

List of calibration curves

calibration curve	description	density	measuring range
floor screed	cement screed normally compacted	approx. 2000kg/m ³	0.5 to 4.5%
CM floor screed	cement screed normally compacted conversion in CM %	approx. 2000kg/m ³	0.2 to 4.0%
concrete	concrete normally compacted	approx. 2400kg/m ³	0.5 to 5.0%
anhydrite floor screed	anhydrite floor screed normally compacted	approx. 2600kg/m ³	0.5 to 5.0%
Digit		-----	0 to 100
reference	<i>! only for device check!</i>	-----	-----

Information regarding measurements with GE1 basic device

Screed and concrete

The degree of drying and the moisture dispersal can differ significantly. Therefore we recommend to find out the wettest area by effecting a large number of measurements with the humimeter GF2. Then knock off the bottom layer of the wettest area and effect a final evaluation by drying in a drying chamber or via CM device.



Density ranges:

Concrete: between 2200kg/m³ and 2600kg/m³

Floor screed: between 1800kg/m³ and 2200kg/m³

Anhydrite floor screed: 2600kg/m³

CM method

Another common method of determining the moisture **of the bottom layer of screed** is the CM method. The accuracy of the CM method depends on various parameters and is not suited for a comparison with the humimeter GF2 resp. for material calibration. In the following chart of producers of CM devices you can find comparative values of measurements in drying chamber in weight% to CM% for some concrete types. Please find comparative values for other concrete types in the user manual of your CM device.

CM calibration curve

The CM floor screed calibration curve is a conversion from water content into CM %. The measurement values of this calibration curve are guidance values and do not replace the CM method. However, via the non-destructive measuring process of the GF2 the measurement is simplified. Subsequently a CM measurement according to the norm is recommended

cement screed	weight %	1.8	2.2	2.7	3.2	3.6	4.1	4.5	5.0
	CM %	0.7	1.0	1.4	1.8	2.1	2.5	2.9	3.2
anhydrite floor	weight %	0.1	0.3	0.6	1.0	1.4	1.8	2.2	2.5
	CM %	0.1	0.3	0.6	1.0	1.4	1.8	2.2	2.5
concrete B15,B25,B35	weight %		1.3	1.9	2.5	3.2	3.8	4.4	5.0
	CM %		0.3	0.8	1.3	1.7	2.2	2.7	3.2

If your CM device shows a cement screed moisture value of 1.8 CM%, this value corresponds to 3.2 weight% corresponding to the norm method in the drying chamber.