



ConcDry®

Product test summer-autumn 2022



ConcDry®

ConcDry® is a new and patented way to measure humidity and temperature in concrete floors as they dry up.

We tested ConcDry® this summer and autumn together with a large Danish contractor.

The test was divided into two different setups, each with a different type of concrete.

The sensor is designed so that it can be embedded in concrete, as it can withstand 100% RH

In these tests, a "borehole method" was used

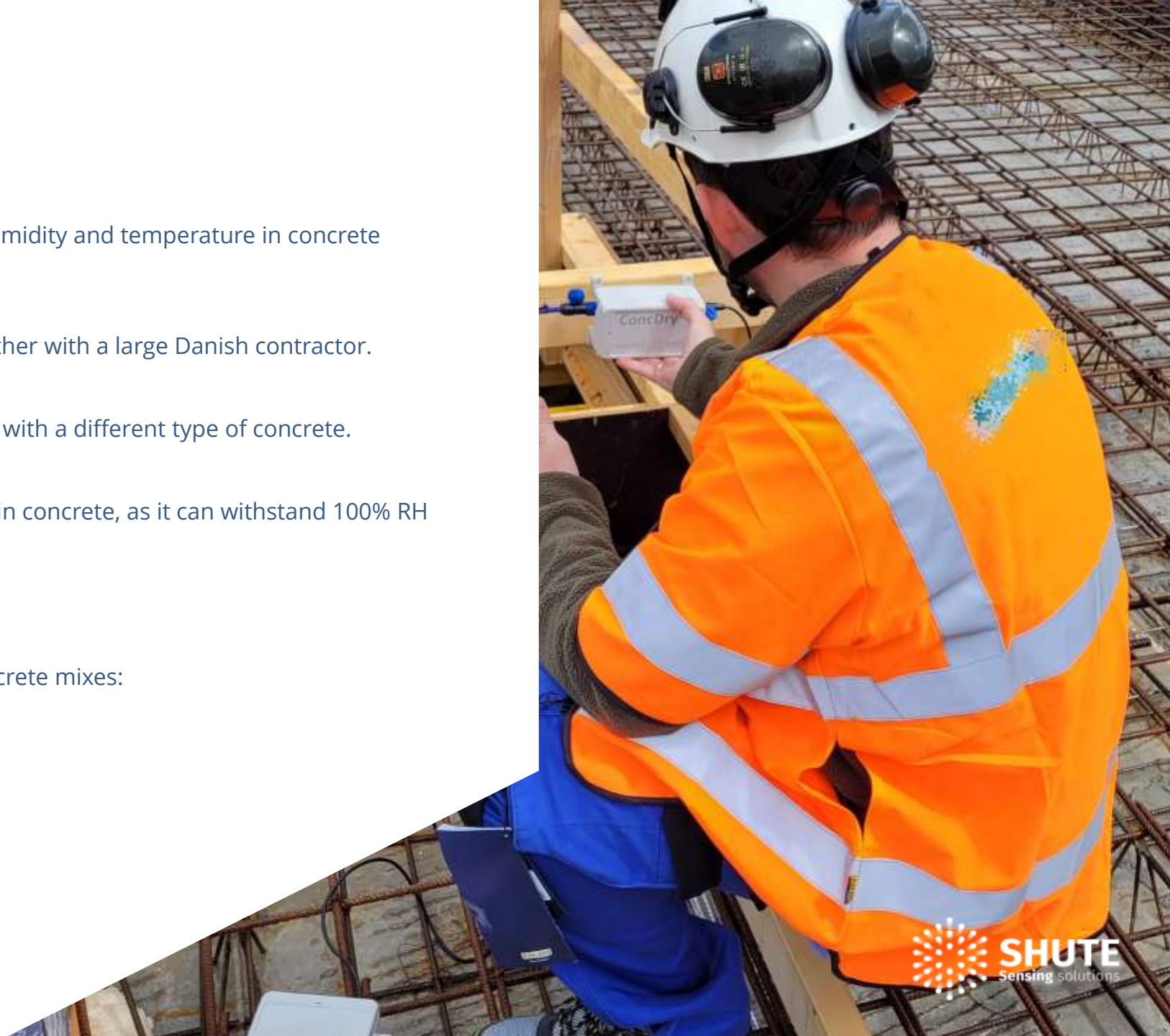
ConcDry® product tests were carried out in two concrete mixes:

Setup 1, Sensor 1, Electronic box 1

Foam concrete

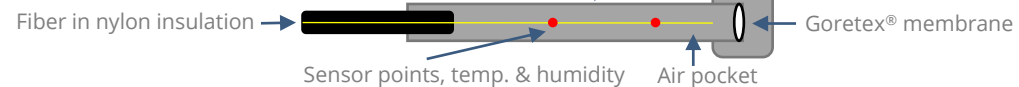
Setup 2, Sensor 1, Electronic box 1

70mm concrete slab. Gravel 0.6; water; cement 52.5



ConcDry®

ConcDry® sensor system consists of:
An electronic box with a transmitter & a sensor

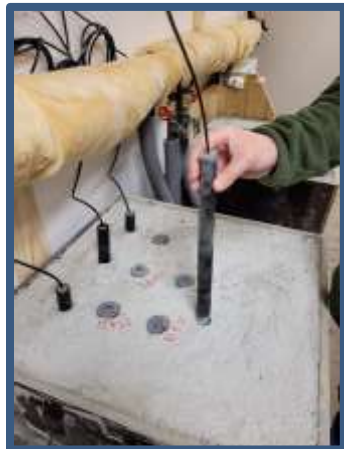


ConcDry[®]

Goretex[®] membrane



Sensor House



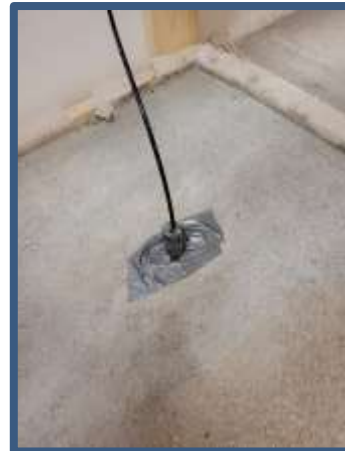
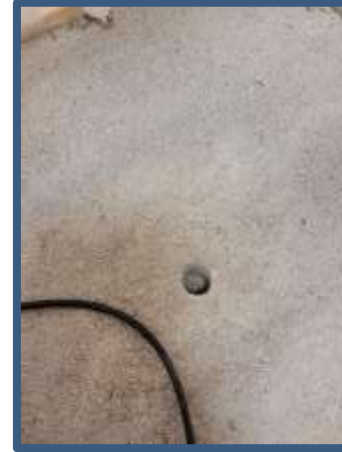
Setup 1, Sensor 1, Electronic box 1

- Foam concrete
- Casted 40 days earlier, on 7 April 2022
- Sensor housing placed at a depth of 25 cm
- Floor heating at the bottom, attached to a rebar

ConcDry®

Goretex® membrane

Sensor House



Setup 2, Sensor 1, Electronic box 1

- 70mm concrete slab.
Gravel 0.6; water;
cement 52.5
- Casted on August 5,
2022
- In the test scenario in
August, RF% was
approx. 60%

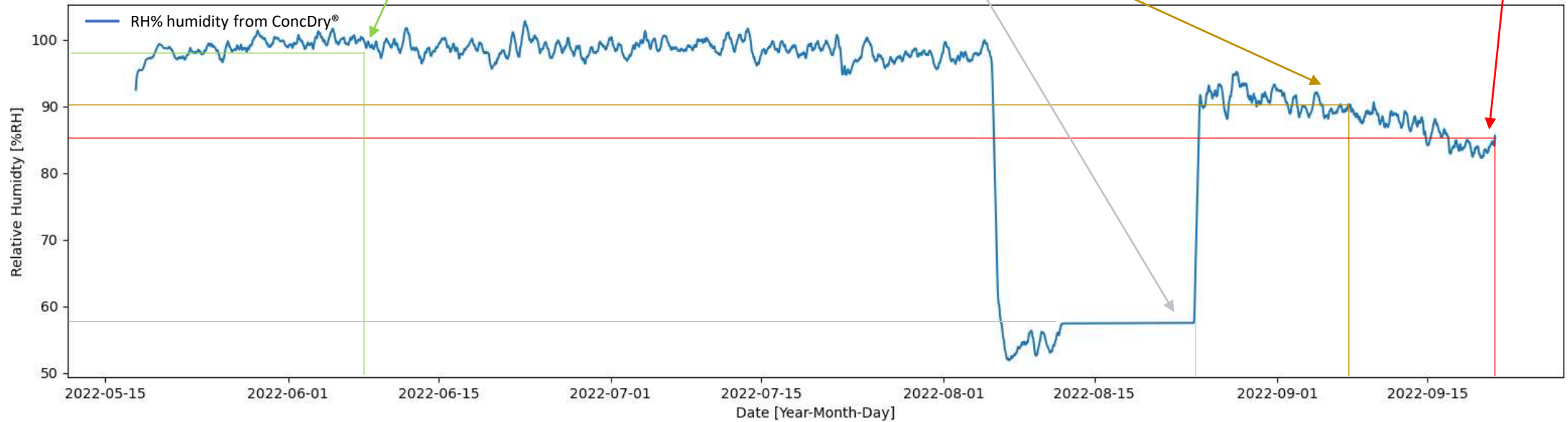
24 August, reference RH% approx. 60% in the test center's closed and controlled indoor climate

RESULTS

June 8, reference measurement taken, 61 days after casting, RH P1: 96%, P2 93%

September 8, reference measurement taken, 34 days after casting, RH 90%

21 September, reference measurement taken, 47 days after casting, RH 85%



Setup 1, Sensor 1, Electronic box 1
Foam concrete

Setup 2, Sensor 1, Electronic box 1
70mm concrete slab. Gravel 0.6; water; cement 52.5

Conclusions

- Documented that the concrete in Setup 1 was still wet, even after months of drying
- Good agreement between ConcDry® measurements and humidity reference measurements in both Setup 1 and 2

ConcDry®

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