



Customer:

AS Uninaks

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90303 LÄÄNEMAA

26.09.2025

Experimental Report N° 814A/25

Page.1/2

Assignment: Testing of dry mix

Product designation: Dry mix **UNINAKS BETOON C30, 02.05.25 Liin 07**
Forwarded to the laboratory by customer on 20.05.2025, 50 kg.

Test method: EN 12390-3 and EN 13057*).

Fresh concrete was prepared on 03.07.2025 in accordance with manufacturer's instructions using the water / product ratio 0,13 specified by manufacturer.

For determination compressive strength the test specimens with dimensions 100x100x100 mm were prepared. Curing regime of test specimens: 24 h in the mould and 27 days under water (20±2) °C. The results are given in Table 1.

Capillary absorption was determined following the requirements of EN 13057. Resistance to capillary absorption was measured on the trowelled upper face of 100 mm diameter cylindrical specimens of mortar, with a thickness of 20 mm. Curing regime of test specimens: 24 h in the mould and 27 days under water (21±2) °C. The specimens were dried to constant mass at a temperature (40±2) °C for seven days and conditioned in a standard laboratory climate of (21±2)°C and (60±10)% RH. Specimens were weighed and placed in the shallow tray with their test face down and immersed in water to a depth of (2±1) mm. The specimens were weighed after 12 min, 30 min, 1 h, 2 h, 4 h and 24 h immersion. The results are given in Table 2 and Figure 1.

Test results:

Table 1: 28 days compressive strength of dry mix concrete marked as „UNINAKS BETOON C30, 02.05.25 Liin 07“ according to EVS-EN 12390-3

Designation	Testing date	Dimensions, mm			A, cm ²	Mass, kg	Density, kg/m ³	F, kN	Compressive strength, N/mm ²		
		a	b	h					üksik	keskm	
Concrete C30	1	31.07.25	101.0	98.5	100.0	99.5	2.191	2200	484	48.6	49.0
	2		100.0	100.0	100.0	100.0	2.223	2220	480	48.0	
	3		98.0	101.0	100.0	99.0	2.180	2200	499	50.4	

* This test method does not belong to the accreditation scope of laboratory.

Table 2: The sorption coefficient of concrete marked as „UNINAKS BETOON C30, 02.05.25 Liin 07” in accordance with EN 13057.

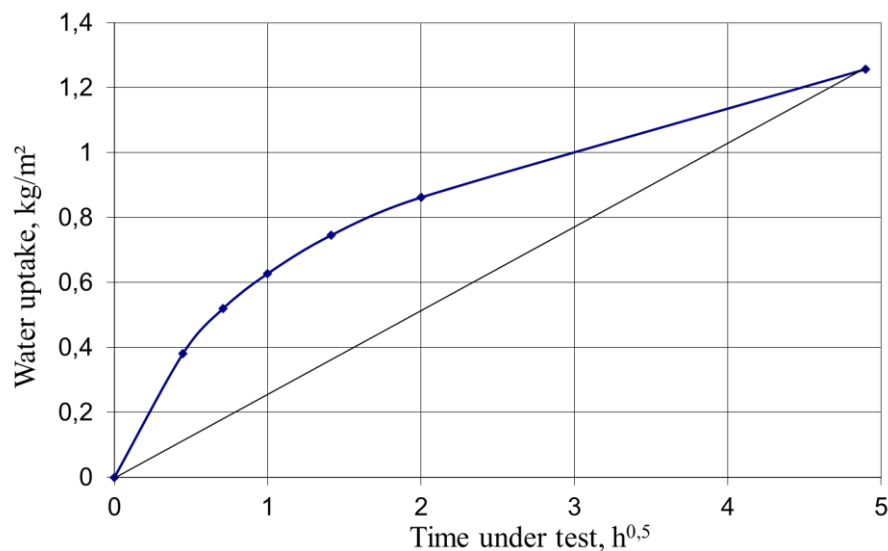
Testing time: 11.08.25-12.08.25.

Nr.	Dimensions		Area A, cm^2	Mass / sorption coefficient after immersion							
	$\varnothing, \text{mm}$	h, mm			0 min	12 min	30 min	1 h	2 h	4 h	24 h
1	107.0	32.5	89.9	g	593.36	597.15	598.57	599.61	600.70	601.83	605.50
				$\text{kg}/(\text{m}^2 \cdot \text{h}^{0.5})$		0.94	0.82	0.70	0.58	0.47	0.28
2	106.5	26.4	89.0	g	458.71	462.08	463.30	464.32	465.43	466.53	470.45
				$\text{kg}/(\text{m}^2 \cdot \text{h}^{0.5})$		0.85	0.73	0.63	0.53	0.44	0.27
3	106.5	28.8	89.0	g	520.32	523.37	524.43	525.27	526.23	527.12	530.10
				$\text{kg}/(\text{m}^2 \cdot \text{h}^{0.5})$		0.77	0.65	0.56	0.47	0.38	0.22

The mean value of sorption coefficient $S = 0.3 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$

Mean waterfront after 2 hours was 11 mm.

Figure 1 Water uptake of test specimens depending on exposure time EN 13057.



The test results are valid to the described test sample only.

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