TALLINN UNIVERSITY OF TECHNOLOGY
Department of Civil Engineering and Architecture
RESEARCH AND TESTING LABORATORY OF BUILDING MATERIALS
Accredited by the Estonian Accreditation Centre reg nr L004

Customer:
AS Uninaks

Forelli11
10612 TALLINN

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Experimental Report N° 422/20

Assignment: Testing of mortar for masonry.

Product designation: Dry mix of mortar for masonry, marked as „**Müürisegu M 200, 11.02.20, liin 06**". Forwarded to the laboratory by costumer on 13.05.2020 (25 kg).

Test method: EN 1015 „Methods of test for mortar for masonry".

Content of water-soluble chloride was determined in accordance with EN 1015-17. The analytical sample of mass 12 g was obtained by manual grinding. The values of chloride content are given in table 1.

Fresh mortar was prepared in accordance with EN 1015-2 using water quantity, specified by manufacturer **w = 0.17**. Mortar was mixed in mixer according to EVS-EN 196-1 and the following mixing procedure: mixing 1,5 min + maturing time 3 min + mixing 1 min. The flow value was determined in accordance with EN 1015-3 and it was **149 mm**. For determination of the compressive strength of hardened mortar, three test specimens with dimensions 40x40x160 mm were prepared according to EN 1015-11. Test specimens were cured: at temperature (20±2) °C and relative humidity (95±5) % 2 days in the mould and 5 days with the mould removed and after that at temperature (20±2) °C and relative humidity (65±5) % 21 days with the mould removed. For compressive strength test specimens were broken into two halves to provide six half prisms. The compressive strength was determined in accordance with EN 1015-11. The results are given in table 2.

Test results:

Table 1: Water-soluble chloride content of mortar for masonry, marked as „**Müürisegu M 200, 11.02.20, liin 06**" in accordance with EN 1015-17

Testing date	Water-soluble chloride content by mass, %		
	individual		mean
14-15.05.20	0.013	0.014	0.014

Table 2: Compressive strength of mortar for masonry, marked as „**Müürisegu M 200, 11.02.20, liin 06**" in accordance with EN 1015-11

Preparing date	Testing date	Age, days	Compressive strength, N/mm²		
			individual		mean
15.05.20	12.06.20	28	23.00	21.30	22.2
			22.40	21.80	
			22.25	22.25	

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

Margit Rosenberg
Acting Manager of the Laboratory