

REPORT No.: 010 – M – 2013
concerning mortar tests

1 Basic specification

Customer:	IZONIL
Indication of tested material:	IZONIL CEMENT
Number of sample:	357/MCT/2/2013
Date of sample reception:	02. 10. 2013
Date of testing:	02. 10. 2013 - determination of consistence and manufacturing of tested bodies 30. 10. 2013 - flexural strength and compressive strength of hardened mortar in 28 days 04. 11. - 13. 11. 2013 - capillary action of hardened mortar 19. 11. - 20. 11. 2013 - capillary of hardened mortar
Tested by:	Helena Bognárová, Jozef Varga
Type of test:	type-testing

1.1 Test standards, prescription of testing procedure

- STN EN 1015-2 Methods of tests for mortar for masonry. Part 2: Bulk sampling of mortars and preparation of test mortars (72 2441)
- STN EN 1015-3 Methods of tests for mortar for masonry. Part 3: Determination of consistence of fresh mortar (by flow table) (72 2441)
- STN EN 1015-11 Methods of tests for mortar for masonry. Part 11: Determination of flexural and compressive strength of hardened mortar (72 2441)
- STN EN 1015-18 Methods of tests for mortar for masonry. Part 18: Determination of water absorption coefficient due to capillary action of hardened mortar (72 2441)

1.2 Competence for testing

Certificate of accreditation No. 154/S-301 certified by SNAS.

2 Specification about samples

Testing sample was delivered by customer.

Components of tested mortar – reception for 1 m³:

- IZONIL CEMENT 25 kg
- Potable water 11 l

Mixing of mortar was done following producer's guide: 8 minutes mixing with the equipment GRUNT MG 1800.

Moulds with mortar were filled in two layers firmed up by 25 bats of rammer.

Tested samples were stored in accordance with STN EN 1015-11, tab. 1.

3 Specification about testing method

3.1 Discrepancies from standard method

Testing methods were kept according to standards STN except of capillary action test. Tested samples were not dried on the demand of customer.

3.2 Circumstances with influence into test results

Test results were not negatively influenced by any circumstance.

4 Test results

Table No. 1 Characteristics of fresh mortar

Test parameter	Unit	Measured values			
Flow after mixing (STN EN 1015-3)	mm	196	195	φ	196

Table No. 2 Characteristics of hardened mortar

Test parameter	Unit	Measured values				
Capillarity (coefficient of capillary absorption) (STN EN 1015-18)	kg/(m ² ·min ^{0,5})	0,10	0,10	0,10	φ	0,1
		0,10	0,10	0,10		
Capillary action (STN EN 1015-18)	mm	1	0	1	φ	1
		0	1	0		
Flexural strength after 28 days (STN EN 1015-11)	N/mm ²	5,55	5,65	5,25	φ	5,5
Compressive strength after 28 days (STN EN 1015-11)	N/mm ²	34,70	34,15	35,10	φ	34,6
		36,15	32,90	34,65		

5 Summary

Measured values are listed in tables 1 and 2.

Declaration

Sampling was done apart from accreditation. Test results refer to the subject of testing only and do not substitute other documents, required by the supervising authorities according to specific directives. Without written agreement of testing laboratory, it is not allowed to reproduce this report incomplete

Date of elaborate: 16. 12. 2013

Checked and authorized by:




Jozef Varga
Head of the Workplace 01