

POLITECHNIKA WARSZAWSKA WYDZIAŁ INŻYNIERII LĄDOWEJ ZAKŁAD INŻYNIERII MATERIAŁÓW BUDOWLANYCH		
LABORATORY EXERCISE REPORT BUILDING MATERIALS 2 - LABORATORY		
Mineral additives for concrete: pozzolanic activity index		
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Tutor:	Stationary studies	Academic Year

1. TASK AIM

The aim of the task was to

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2. TEST RESULTS

2.1. COMPRESSIVE STRENGTH OF STANDAR MORTAR (EN 196-6)

Mortar composition		Cement		Aggregate: standard sand		Water: tap water	
		c = g		s = g		w = g	
Age of the mortar:	 days					
Flexural strength				Compressive strength			
Specimen No	F _g [kN]	R _{gi} [MPa]	R _{gm} [MPa]	Specimen	F _c [kN]	R _{ci} [MPa]	R _{cm} [MPa]
1				1.1			
				1.2			
2				2.1			
				2.2			
3				3.1			
				3.2			

2.2. COMPRESSIVE STRENGTH CLASS OF MORTAR WITH MINERAL ADDITIVE (25% OF BINDER MASS)

Mortar composition		Cement	Additive:	Aggregate: stand sand		Water: tap water	
		c = g	a = g	s = g		w = g	
Age of the mortar:	 days					
Flexural strength				Compressive strength			
Specimen No	F _g [kN]	R _{gi} [MPa]	R _{gm} [MPa]	Sample	F _c [kN]	R _{ci} [MPa]	R _{cma} [MPa]
1				1.1			
				1.2			
2				2.1			
				2.2			
3				3.1			
				3.2			

Mean compressive strength of mortar with additive tested after 28 days (R_{cma}) is than 75% of mean compressive strength of standard mortar tested after 28 days i.e. $R_{cm} \cdot 0,75 = \dots$ MPa.

3. CONCLUSIONS

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NOTES & CALCULATIONS

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