

POLITECHNIKA WARSZAWSKA WYDZIAŁ INŻYNIERII LĄDOWEJ ZAKŁAD INŻYNIERII MATERIAŁÓW BUDOWLANYCH		
LABORATORY EXERCISE REPORT BUILDING MATERIALS 2 - LABORATORY		
Non-hydraulic Binders: Gypsum and Lime Binders		
Author:	Group:	Semester 3
Tutor:	Stationary studies	Academic Year

1. TASK AIM

The aim of the task was to

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2. TEST RESULTS

2.1. WATER/GYPSUM BINDER RATIO (PN-EN 13279-2)

Tested material: gypsum binder type A						
Team No	Water mass (w) [g]	Binder mass (g) [g]	w/g ratio [g/g]	Mean value w/g [g/g]	pH	Acid/neutral/alkaline
1	100					
2	100					
3	100					
4	100					

2.2. BEGINNING OF SETTING (CUTTING METHOD, PN-EN 13279-2)

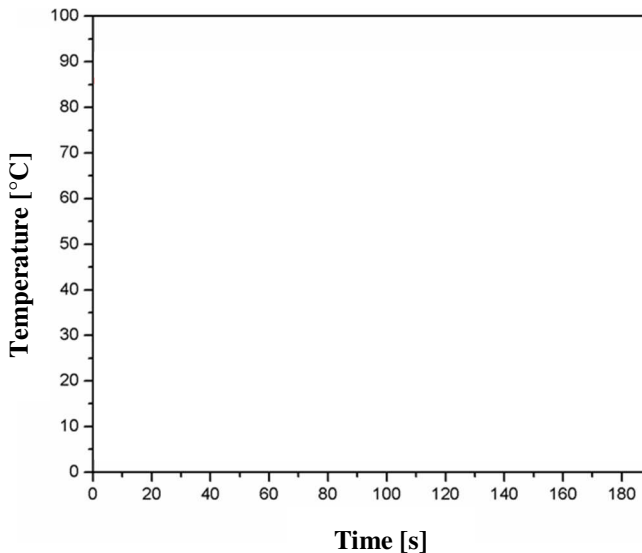
Tested material: gypsum binder type A										
Trial	I	II	III	IV	V	VI	VII	VIII	IX	X
Time [s]										
Cutting edge: a – merged b – not merged										
Trial	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX
Time [s]										
Cutting edge: a – merged b – not merged										

2.3. PREPARATION OF SPECIMENS FOR TESTING THE STRENGTH OF GYPSUM BINDER TYPE A (PN-EN 13279-2)

Gypsum paste composition		w/g =	g	g =	g	w =	g
Flexural strength test				Compressive strength test			
Specimen	Flexural force, F_g [kN]	Flexural strength, R_g [kN]	Specimen	Compressive force, F_c [kN]	Compressive strength, R_c [kN]		
1			1.1				
			1.2				
2			2.1				
			2.2				
3			3.1				
			3.2				
Mean value, R_g			Mean value R_c				

2.4. REACTIVITY OF AIR-BURNED LIME USING THE BEAK METHOD

Type of lime:			
Specimen mass: g		Distilled water mass: g	
Reactivity	Measurement No 1	Measurement No 2	Mean value
Time [min]			
Temperature [°C]			



2.5. DEGREE OF GRINDING HYDRATIZED CALCIUM LIME BY SIEVE METHOD (PN-EN 196-6)

Type of lime:					
Mass of sample 1:			Mass of sample 2:		
Sieve residue	Measurement No 1		Measurement No 2		Mean value 2 [%]
	[g]	[%]	[g]	[%]	
0,09					
0,2					

3. CONCLUSIONS

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4. NOTES & CALCULATIONS

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