Topic 2 INTERNAL PLASTERS	
Worksheet No.1:	*Test on the initial and final setting time of plaster*

Tasks:

1. Work in 3 groups
2. Prepare tools and test specimens following Appendix 1
3. Read the procedure of the laboratory exercise carefully – student's book, pp. 220-221.

4 Conduct a test on the initial and final setting time of each gypsum spesimen

5. Calculate the setting time of each gypsum specime

6 Put down the measured values in the table – see Appendix 2

7. Considering the vaues in 5, define the type of gypsum according to the freezing time
8. From the test specimens, choose a suitable gypsum binder for gypsum plaster
9. Keep a recod of the whole testing process in the laboratory protocol template

Teaching materials:

1.) Ing. Zdenka Chládeková: Building materials for the 1st year of the study department engineering

2.) Annex no. 1 – Tools and test samples

3.) Annex no. 2 – Table of measured values

3.) Laboratory test report

During the laboratory exercise follow:

1. Laboratory rules and regulations
2. Workplace health and safety regulations
3. Fire-fighting measures

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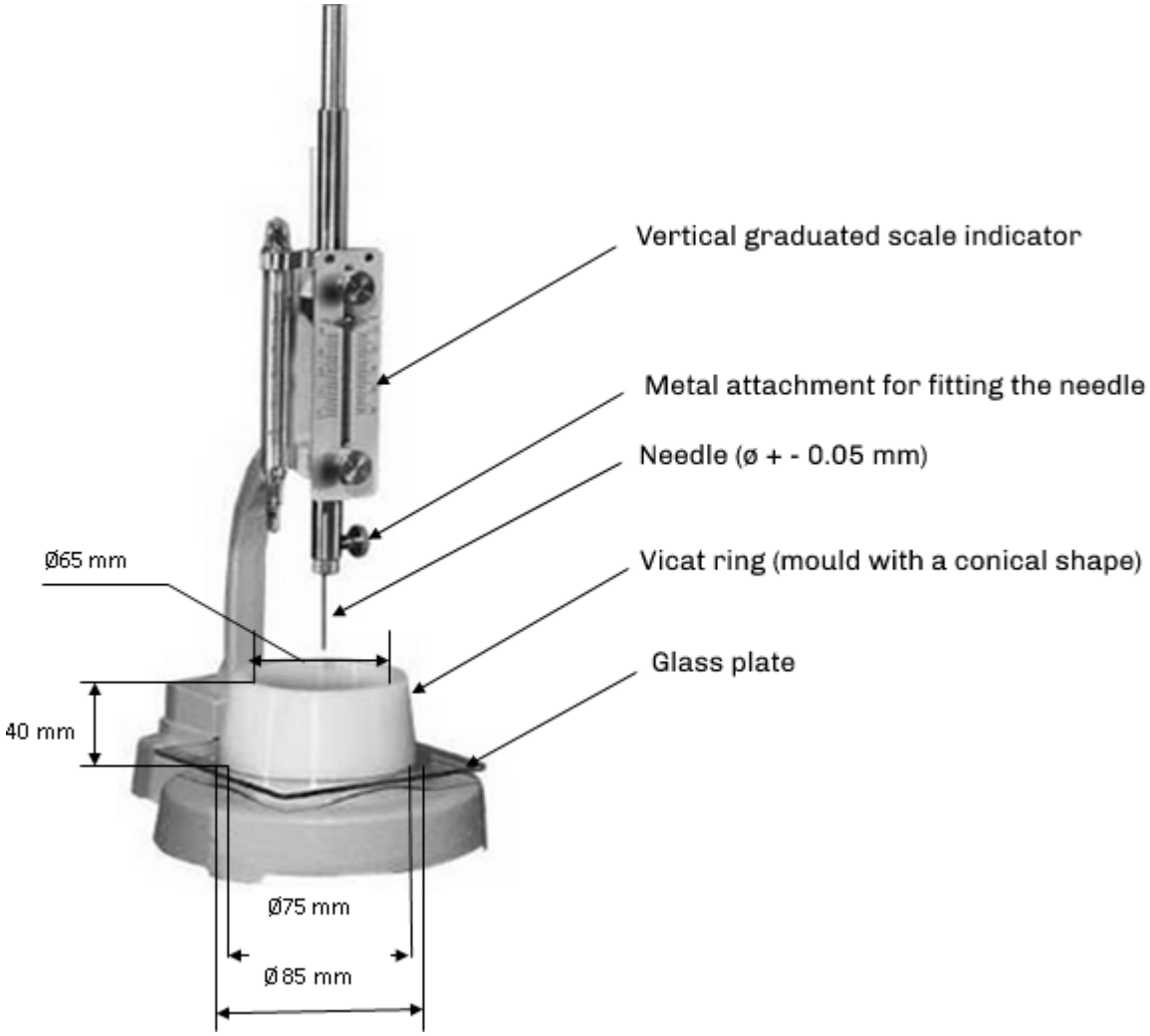
Appendix 1 - Equipment and test specimens

Vicat apparatus



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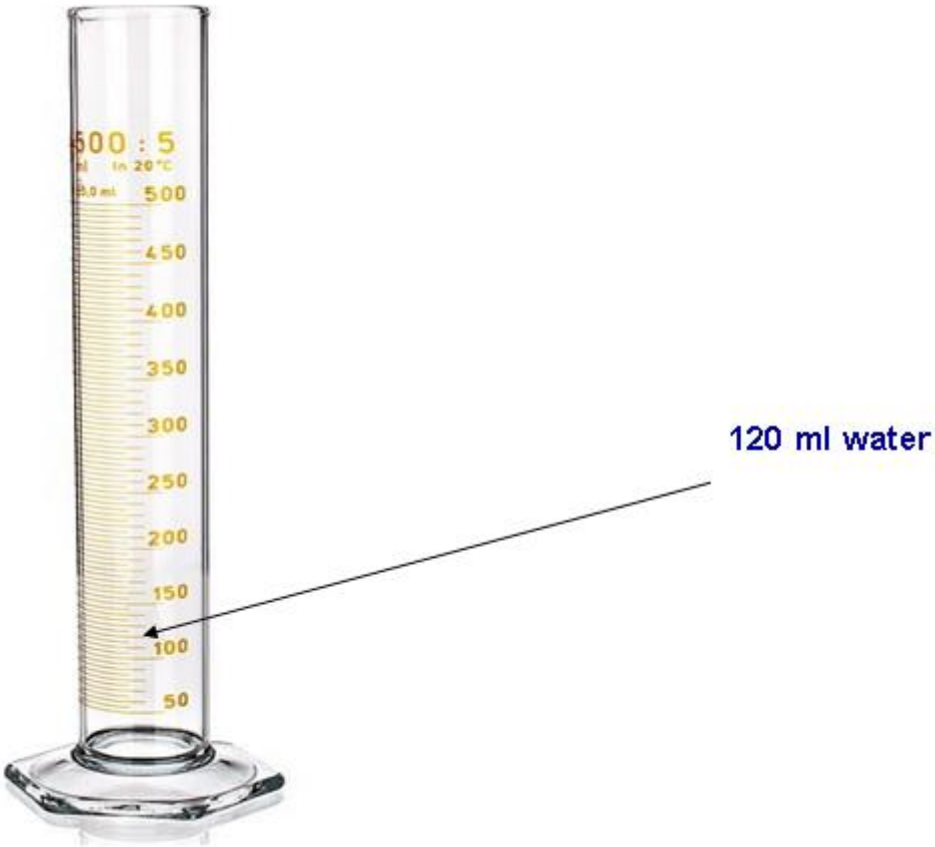
Measuring cylinder (measuring jar)



Other tools

glass rod

gauging trowel

spatula

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digital scales

bowl (500 m3)

stopwatch

vaseline

calculator

towel

Test specimens

Specimen 1

Specimen 2

Specimen 3

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Annex no. 2 Table of measured values

Specimen No.	Gypsum [g]	Water [ml]	Initial setting time [hod:min]	Final setting time [hod:min]	Setting time [min]	Classifying gympum according to setting time

A Fast-setting gympum – it starts hardening after the 2nd minute and lasts until the 15th minute

B Normal-setting gympum – it starts hardening after the 6th minute and lasts until the 30th minute

C Slow-setting gypsum – it starts hardening after 20 minutes; the duration of setting time is not required

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PROTOCOL from the laboratory test

Name and surname:	The class: School year:
Test site: Laboratory	Test date:
Laboratory exercise No.	
Title: Test on the initial and final setting time of plaster	
AIDS:	
TEST specimens:	
Safety and health protection:	
Approach:	
CONCLUSION (Findings, evaluation of the test):	

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