



Test Report

Report No.	MO1 1564 05 2023
Client	SCIB Chemicals S.A.E
Authority & date	Request Orders 1/5/2023
Items Tested	<u>SmartCare Tile Adhesive plus 205</u>
Results	<i>The detailed test results are given on the following pages of this report (5 pages) .</i>
Report Typist	* Mis. Naglaa Mohamed-Sara Abdel Reheam
Test carried by	Noha Samir
	* Mis . Fatma El Zahraa Fikry
	* H.Eng. Ahmed Said
	* Chem. Amr El Shafey
	* Dr. Abou El Ftouh Abd El Hakem
Authorized by	Prof. Dr. Mostafa Zaki Mostafa
	* The Supervisor of ceramics, Polymer and Solid Matter Department.
	* Management Representative and Quality Assurance Manager.
Issue date	7/6/2023
Condition of Test & Issue	<i>The test specimen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .</i>





NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientifical Services (CUASS)
Material Test Lab.

المركز القومي للبحوث

الدقى . القاهرة . جمهورية مصر العربية
وحدة التحاليل و الخدمات العلمية المركزية
معمل اختبار المواد



To / SCIB Chemicals S.A.E

Dear Sir.,

With correspondence to your request dated 1/5/2023 concerning the testing sample of SmartCare Tile Adhesive plus 205, We would like to inform you that the all following needed tests were carried out which namely:

- 1- Initial tensile adhesion strength test after 28 days (Regular condition) - according to EN 12004-2-2017
- 2- Tensile adhesion strength test after 20 days water immersion according to EN 12004-2-2017
- 3- Tensile adhesion strength test after 14 days heat ageing at 70°C according to EN 12004-2-2017
- 4- Tensile adhesion strength test after freeze- thaw cycle (25 cycles) according to EN 12004-2-2017
- 5- Vertical slip test according to EN 12004-2-2017

We would like to inform you that the needed test was carried out taking into consideration the following conditions :

- 1- In all mechanical properties GALDABINI – QUASAR 600 – Made In Italy Universal Testing Machine was used This type has a self calibration , zero adjusting and automatic balance , which are done daily before testing or during testing this testing instrument is accompanied by a highly reliable system for evaluating the mechanical properties .
- 2- Measuring drum of sensitivity $\pm 0.01\text{mm}$ was used for dimensions evaluation.
- 3- On heating a Memmert West Germany oven was used .
- 4- Weighing Balance with tolerance $+ 0.0001\text{ g}$ was used in determining the weights .
- 5- JSR digital water bath model JSWB - 30T made in Korea .
- 5- All used Machineries and apparatuses were calibrated periodically

The following tables give the obtained results representing the sample delivered from your company .



2023



Test results on a sample of SmartCare Tile Adhesive plus 205

Delivered from SCIB Chemicals S.A.E

1- Initial tensile adhesion strength test after 28 days

(Regular condition) - according to EN 12004-2-2017

No.	Results (N/mm ²)	The mean value (N/mm ²)	EN 12004 C1 limit (N/mm ²)
1	0.57	0.56	≥ 0.5
2	0.53		
3	0.54		
4	0.58		
5	0.57		

*** Failure pattern CF-A**

***2- Tensile adhesion strength test after 20 days water immersion
according to EN 12004-2-2017***

No.	Results (N/mm ²)	The mean value (N/mm ²)	EN 12004 C1 limit (N/mm ²)
1	0.61	0.64	≥ 0.5
2	0.66		
3	0.63		
4	0.64		
5	0.65		

*** Failure pattern CF-A**





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Test results on a sample of SmartCare Tile Adhesive plus 205

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3- Tensile adhesion strength test after 14 days heat ageing at 70°C

according to EN 12004-2-2017

No.	Results (N/mm2)	The mean value (N/mm2)	EN 12004 C1 limit (N/mm2)
1	0.52	0.53	≥ 0.5
2	0.54		
3	0.53		
4	0.51		
5	0.53		

**** Failure pattern CF-A***

4- Tensile adhesion strength test after freeze- thaw cycle (25 cycles)

according to EN 12004-2-2017

No.	Results (N/mm2)	The mean value (N/mm2)	EN 12004 C1 limit (N/mm2)
1	0.51	0.52	≥ 0.5
2	0.52		
3	0.51		
4	0.56		
5	0.52		

**** Failure pattern CF-A***

5- Vertical slip test according to EN 12004-2-2017

Vertical slip = 0.39 mm

EN 12004 T limit ≤ 0.5 mm

**** The sample conform with EN 12004 C1 T***





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*This report was given to you representing only the results for the testing sample of SmartCare Tile Adhesive plus 205, Delivered from SCIB Chemicals S.A.E , These results and conclusions were given to you without any responsibility on **THE CERAMICS, POLYMERS AND SOLID MATTER DEP. of THE MATERIAL TEST LAB** in **THE NATIONAL RESEARCH CENTRE** for pick up the samples to be tested .*

**Head of Director of The Board of Central Department
for Scientific Analysis and Tests**

&

SUPERVISOR
**OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA ZAKI MOSTAFA

