



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

المركز القومي للبحوث

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



Test Report

Report No.

MO1 9389 08 2022

Client

SCIB Chemicals S.A.E

Authority & date

Request Orders 28/8/2022

Items Tested

Smart care repair emulsion (A , B)

Results

The detailed test results are given on the following pages of this report (7 pages) .

Report Typist

*** Mis. Naglaa Mohamed-Sara Abdel Reheam
Noha Samir**

Test carried by

*** 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

12/10/2022

**Condition of Test
& Issue**

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 .





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To / SCIB Chemicals S.A.E

Dear Sir.,

With correspondence to your request dated 16/8/2022 concerning the testing samples of Smart care repair emulsion (A , B) , We would like to inform you that the all following needed tests were carried out which namely:

1- Compressive strength test after 28 days according to ASTM C109

2- Bond strength test by slant shear to concrete according to ASTM C1042

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 g was used in determining the weights .

5- All used Machineries and apparatuses were calibrated periodically

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



Test results on a samples of Smart care repair emulsion (A)

Delivered from SCIB Chemicals S.A.E

1- Compressive strength test after 28 days according to ASTM C109

on (cement-sand mortar 1 : 3 + SBR mix 1: 1 water)

<i>No.</i>	<i>Results (N/mm2)</i>	<i>The mean value (N/mm2)</i>
<i>1</i>	<i>39.07</i>	<i>37.94</i>
<i>2</i>	<i>38.21</i>	
<i>3</i>	<i>38.01</i>	
<i>4</i>	<i>37.11</i>	
<i>5</i>	<i>37.29</i>	

2- Bond strength test by slant shear to concrete

according to ASTM C1042

<i>No.</i>	<i>Results (N/mm2)</i>	<i>The mean value (N/mm2)</i>
<i>1</i>	<i>2.81</i>	<i>2.82</i>
<i>2</i>	<i>2.77</i>	
<i>3</i>	<i>2.89</i>	

A. A. El-Hachimi
 ومعه
 التحاليل والخدمات العلمية المركزية



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Test results on a samples of Smart care repair emulsion (A)

Delivered from SCIB Chemicals S.A.E

1- Compressive strength test after 28 days according to ASTM C109

on (cement-sand mortar 1 : 3 + SBR mix 1: 4 water)

No.	Results (N/mm ²)	The mean value (N/mm ²)
1	29.17	29.89
2	29.23	
3	30.65	
4	30.31	
5	30.09	

2- Bond strength test by slant shear to concrete

according to ASTM C1042

No.	Results (N/mm ²)	The mean value (N/mm ²)
1	2.23	2.22
2	2.15	
3	2.29	

