



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 والخدمات العلمية المركزية
معمل اختبار المواد



Test Report

Report No.

MO1 2114 07 2023

Client

SCIB Chemicals S.A.E

Authority & date

Request Orders 18/7/2023

Items Tested

SmartCare Apcoflor Max top

Results

The detailed test results are given on the following pages of this report (4 pages) .

Report Typist
Test carried by

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

29/8/2023

Condition of Test & Issue

The test speciemen 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 .



شارع التحرير - الدقى - القاهرة

مباشر : ١٨١٠
٣٣٣٨٧٨٠٣ : وفاكس ١٤٢٤

داخلى

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢

٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



E-mail: nrc1302a@yahoo.com



TO/ SCIB Chemicals S.A.E

Dear Sir.,

With correspondence to your request dated 18/7/2023 concerning the testing sample of SmartCare Apcoflor Max top , We would like to inform you that the all following needed tests were carried out which namely:

- 1- Compressive strength test after 28days according to ASTM C579**
- 2- Abrasion resistance test according to ASTM D4060**
- 3- Water absorption test according to ASTM C413**

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 $\pm 0.01mm$ 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 .



29
7673



Test results on a sample of SmartCare Apcoflor Max top

Delivered from SCIB Chemicals S.A.E

1- Compressive strength test after 28days according to ASTM C579

No.	Results (N/mm2)	The mean value (N/mm2)
1	71.73	73.04
2	73.22	
3	73.13	
4	75.21	
5	71.92	





Test results on a sample of SmartCare Apcoflor Max top

Delivered from SCIB Chemicals S.A.E

2- Abrasion resistance test according to ASTM D4060

<i>No. of cycle</i>	<i>Used wheel</i>	<i>Weight (g)</i>	<i>Weight loss (concrete) (mg)</i>	<i>Weight loss (Sample) (mg)</i>
<i>1000</i>	<i>CS 17</i>	<i>1000</i>	<i>393.7</i>	<i>111.9</i>

3- Water absorption test according to ASTM C413

<i>No.</i>	<i>Results (%)</i>	<i>The mean value (%)</i>
<i>1</i>	<i>4.18</i>	<i>4.38</i>
<i>2</i>	<i>4.36</i>	
<i>3</i>	<i>4.59</i>	





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*This report was given to you representing only the results for the testing sample of SmartCare Apcoflor Max top , 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 Scientifical Analysis and Tests**

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

PROF.DR. MOSTAFA ZAKI MOSTAFA



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