



**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**

**system of EPILUX 74 50micron + EPOXY PUTTY 120 micron + EPLIUX 218 100 micron**

**Results**

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





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**TO/ SCIB Chemicals S.A.E**

**Dear Sir.,**

With correspondence to your request dated 28/8/2022 concerning the testing system of EPILUX 74 50micron + EPOXY PUTTY 120 micron + EPLIUX 218 100 micron , out which namely:

- 1- Bond strength to concrete according to ASTM C321**
- 2- Abrasion resistance test according to ASTM D4060**
- 3- Chemical resistance test at 23°C for 7 days ASTM C267**

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 .



**Test results on system of EPILUX 74 50micron + EPOXY PUTTY**

**120 micron + EPLIUX 218 100 micron**

**Delivered from SCIB Chemicals S.A.E**

**1- Bond strength to concrete according to ASTM C321**

| No. | Bond strength<br>(N/mm <sup>2</sup> ) | The mean value<br>(N/mm <sup>2</sup> ) |
|-----|---------------------------------------|----------------------------------------|
| 1   | 1.81                                  | 1.75                                   |
| 2   | 1.77                                  |                                        |
| 3   | 1.63                                  |                                        |
| 4   | 1.75                                  |                                        |
| 5   | 1.79                                  |                                        |

**\* Failure in concrete**

**2- Abrasion resistance test according to ASTM D4060**

| No. of cycle | Used wheel | Weight<br>(g) | Weight loss<br>(mg) |
|--------------|------------|---------------|---------------------|
| 1000         | CS 17      | 1000          | 93.1                |

**3- Chemical resistance test at 23°C for 7 days ASTM C267**

| No. | Chemicals             | Results   |
|-----|-----------------------|-----------|
| 1   | Acetic acid 20%       | No effect |
| 2   | Lactic acid 20%       | No effect |
| 3   | Zinc sulphate 25%     | No effect |
| 4   | Copper sulphate 25%   | No effect |
| 5   | Tap water             | No effect |
| 6   | Ground water          | No effect |
| 7   | Diesel                | No effect |
| 8   | Hydrochloric acid 10% | No effect |

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*This report was given to you representing only the results for the testing system of EPILUX 74 50micron + EPOXY PUTTY 120 micron + EPLIUX 218 100 micron , 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**

**&**

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

**PROF.DR. MOSTAFA ZAKI MOSTAFA**

