



Test Report

Report No.

MO1 5235 03 2021

Client

Tri-Chem for construction chemicals

Authority & date

Request Orders 15/3/2021

Items Tested

Sample of Tri-Fex UW

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

18/4/2021

**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 .*





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 والخدمات العلمية المركزية
معمل اختبار المواد



TO/ Tri - Chem for construction chemicals

Dear Sir.,

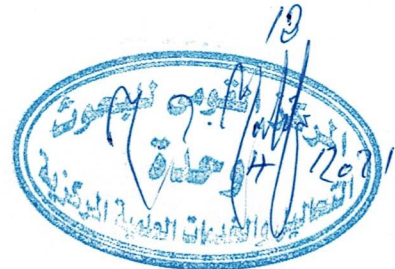
With correspondence to your request dated 15/3/2021 concerning the testing sample of Tri-Fex UW , We would like to inform you that the all following needed tests were carried out which namely:

- 1- Initial tensile adhesion strength test after 28 days (Regular condition) - according to EN 12004-1-2017
- 2- Tensile adhesion strength test after 20 days water immersion according to EN 12004-1-2017

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 ± 0.01 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- 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 .





Test results on a sample of Tri-Fex UW

Delivered from Tri - Chem for construction chemicals

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 C2 limit (N/mm ²)
1	1.15	1.078	≥ 1
2	1.11		
3	1.07		
4	1.02		
5	1.04		

* 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 C2 limit (N/mm ²)
1	1.23	1.17	≥ 1
2	1.22		
3	1.16		
4	1.09		
5	1.15		

* Failure pattern CF-A





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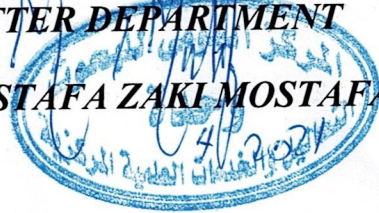
*This report was given to you representing only the results for the testing sample of Tri-Fex UW, Delivered from Tri-Chem for construction chemicals , These results and conclusions were given to you without any responsibility on **THE CERAMICS, POLYMERS AND SOLID MATTER DEP. of THE MATERIAL TEST LAB** 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



شارع التحرير - الدقى - القاهرة
مباشر ٣٣٣٨٧٨٠٣
فاكس ١٨١٠
داخلى ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢
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