



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



Test Report

Report No.

MO1 6584 09 2021

Client

**Velosit Consulting & Construction
Technologies**

Authority & date

Request Orders 30/9/2021

Items Tested

sample of VELOSIT WP 124

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

17/11/2021

**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 / Velosit Consulting & Construction Technologies

Dear Sir.,

With correspondence to your request dated 30/9/2021 concerning the testing sample of VELOSIT WP 124, We would like to inform you that the all following needed tests were carried out which namely:

- 1- Bond Strength to Concrete according to ASTM D4541**
- 2- Water Permeability test according to EN 12390-8**
- 3- Toxicity test.**

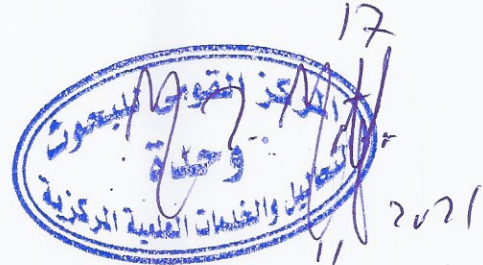
-Toxicity Test according to BS 6920 , BS EN ISO 11348-3.

*** With the supervision of the unit of the Consulting Service For Virus Researches and Bioassays.**

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- All used Machineries and apparatuses were calibrated periodically*

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





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Test results on a sample of VELOSIT WP 124

Delivered from Velosit Consulting & Construction

Technologies

1- Bond Strength test to Concrete according to ASTM D4541

No.	Bond St. (N/mm ²)	The mean value (N/mm ²)
1	1.47	1.53
2	1.51	
3	1.54	
4	1.61	
5	1.53	

2- Water Permeability according to EN 12390-8

Dimension (Cm)	Pressure (bar)	Time (hr)	Result
15 × 15	3	72	No penetration

Toxicity Test according to BS 6920 , BS EN ISO 11348-3

- By using Microtox model 500 found to have no toxicity effect on drinking water. Their suitability for use in drinking water $EC_{50} > 100$.



شارع التحرير - الدقى - القاهرة

مباشر ٣٣٣٨٧٨٠٣
وفاكس ١٨١٠

داخلى ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢
٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



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This report was given to you representing only the results for the testing sample of VELOSIT WP 124, 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 17
**OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA ZAKI MOSTAFA

