

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

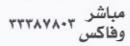
المركز القومى للبحوث

الدقس. القاهرة. جمهورية مصر العربية وحدة التحاليل والخدمات العلمية الركزية معمل اختبار المواد

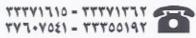


Test Report

1 cst Heport				
Report No. Client	MO1 6584 09 2021 Velosit Consulting & Construction Technologles			
Authority & date	Request Orders 30/9/2021			
Items Tested Results	sample of VELOSIT CW 111 The detailed test results are given on the following pages of this report (5 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				
& Issue	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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معمل اختيار المواد

To / Velosit Consulting & Construction Technologles Dear Sir.,

With correspondence to your request dated 30/9/2021 concerning the testing sample of VELOSIT CW 111, We would like to inform you that the all following needed tests were carried out which namely:

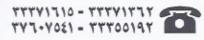
- 1- Bond Strength to Concrete according to ASTM D4541
- 2- Compressive Strength test according to ASTM C579.
- 3- Water Permeability test according to EN 12390-8
- 4- Toxicity test.
- -Toxicity Test according to BS 6920, BS EN ISO 11348-3.
- * With the supervision of the unit of the Consulting Service For Virus Researches and Bioassays.

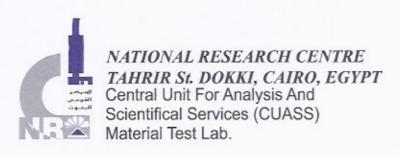
We would like to inform you that the needed test was carried out taking into consideration the following conditions:

- 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 ± 0.01 mm 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 CW 111 <u>Delivered from Velosit Consulting & Construction</u> <u>Technologles</u>

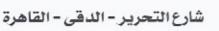
1- Bond Strength test to Concrete according to ASTM D4541

No.	Bond St. after 48hrs (N/mm2)	Bond St. after 28 days (N/mm2)
1	1.27	1.73
2	1.23	1.77
3	1.35	1.72
4	1.29	1.75
5	1.31	1.85
The mean value	1.29	1.76

2- Compressive Strength test according to ASTM C579

No.	Compressive St. after 24hrs (N/mm2)	Compressive St. after 28 days (N/mm2)
I	19.73	52.33
2	19.51	51.77
3	19.46	50.92
4	20.22	51.77
5	19.98	51.82
The mean value	19.78	51.70



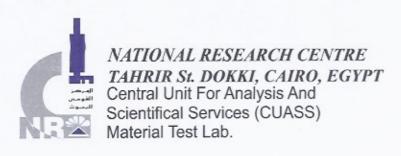


مباشر وفاکس ۳۳۳۸۷۸۰۳

داخلی ۱۸۱۰

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المركز القومى للبحوث

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Test results on a sample of VELOSIT CW 111 Delivered from Velosit Consulting & Construction

Technologles

3- Water Permeability according to EN 12390-8

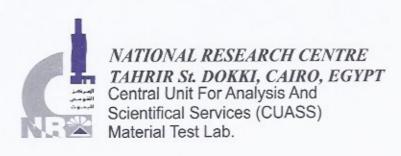
Dimension	Pressure	Time	Result
(Cm)	(bar)	(hr)	
15 × 15	5	72	No penetration

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 EC50 > 100.



E-mail: nrc1302a@yakoo.com



This report was given to you representing only the results for the testing sample of VELOSIT CW 111, 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 Depertment for Scientifical Analysis and Tests

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SUPERVISOR 17
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT

PROF.DR. MOSTAFA ZAKIMOSTAL