



**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.**

**Client**

**Authority & date**

**Items Tested**

**Results**

**Report Typist**

**Test carried by**

**Authorized by**

**Issue date**

**Condition of Test  
& Issue**

**MOI 6584 09 2021**

***Velosit Consulting & Construction  
Technologies***

***Request Orders 30/9/2021***

***sample of VELOSIT CW 111***

***The detailed test results are given on the following  
pages of this report ( 5 pages) .***

***\* 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***

***Prof. Dr. Mostafa Zaki Mostafa***

***\* The Supervisor of ceramics, Polymer and  
Solid Matter Department.***

***\* Management Representative and Quality  
Assurance Manager.***

***17/11/2021***

***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 / Velosit Consulting & Construction Technologies**

**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  $\pm 0.01mm$  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 CW 111*

*Delivered from Velosit Consulting & Construction*

*Technologies*

*1- Bond Strength test to Concrete according to ASTM D4541*

No.	Bond St. after 48hrs (N/mm <sup>2</sup> )	Bond St. after 28 days (N/mm <sup>2</sup> )
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/mm <sup>2</sup> )	Compressive St. after 28 days (N/mm <sup>2</sup> )
1	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



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

٢٢٢٧١٦١٥ - ٢٢٢٧١٣٦٢  
٢٧٦٠٧٥٤١ - ٢٢٢٥٥١٩٢



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**Technologies**

**3- Water Permeability according to EN 12390-8**

<i>Dimension (Cm)</i>	<i>Pressure (bar)</i>	<i>Time (hr)</i>	<i>Result</i>
<i>15 × 15</i>	<i>5</i>	<i>72</i>	<i>No penetration</i>

**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  $EC_{50} > 100$ .



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*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 Department  
for Scientifical Analysis and Tests**

&

**SUPERVISOR 17  
OF CERAMICS, POLYMER AND  
SOLID MATTER DEPARTMENT**

**PROF.DR. MOSTAFA ZAKI MOSTAFA**

