



**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

<b>Report No.</b>	<b>MO1 1899 09 2019</b>
<b>Client</b>	<b>Tri chem construction chemicals</b>
<b>Authority &amp; date</b>	<b>Request Orders 11/9/2019</b>
<b>Items Tested</b>	<b>Tri Prime 1010</b>
<b>Results</b>	The detailed test results are given on the following pages of this report ( 4 pages).
<b>Report Typist</b>	* <b>Mis. Sara Abdel Rehim – Naglaa Mohamed</b>
<b>Test carried and supervised by</b>	* <b>Mis . Fatma El – Zahraa Fikry</b> * <b>H.Eng. Ahmed Sayed</b> * <b>Chem. Amr El Shafey</b> * <b>Dr. Abou El Ftouh Abd El Hakem</b>
<b>Authorized by</b>	<b>Prof. Dr. Mostafa Zaki Mostafa</b> * <b>The Supervisor of ceramics, Polymer and Solid Matter Department.</b> * <b>Management Representative and Quality Assurance Manager.</b>
<b>Issue date</b>	17/10/2019
<b>Condition of Test &amp; Issue</b>	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 .



(1/4-1899)

شارع التحرير - الدقى - القاهرة

مباشر ٢٣٣٨٧٨٠٢  
وفاكس

داخلى ١٨١٠  
١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢  
٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



E-mail: nrc1302a@yahoo.com



**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 التحليل والخدمات العلمية المركزية  
معمل اختبار المواد



### **To / Tri chem construction chemicals**

**Dear Sir.,**

With correspondence to your request dated 11/9/2019 concerning the testing Sample of Tri Prime 1010, We would like to inform you that the all following needed tests were carried out which namely :-

**1- Bond Strength Test to concrete according to ASTM D4541**

**2- Bond Strength Test to steel according to ASTM D4541**

We would like to inform you that the all needed tests were carried out taking into consideration the following conditions :

1-In all mechanical properties GALDABINI –QUASAR 600- Testing Machine was used This type of GALDABINI 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-Weighing Balance with tolerance+0.0001gwas used in determining the weights

3-Measuring drum of sensitivity+0.01mm was used for dimensions evaluation

4- The all used Machinery and the apparatus were calibrated periodically .

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



Handwritten signature and date: 17/10/2019  
Official stamp of the National Research Centre (NRC) with Arabic text and a central emblem.

(2/4-1899)

شارع التحرير - الدقى - القاهرة

مباشر ٢٢٢٨٧٨٠٣  
وفاكس ١٤٢٤

داخلى ١٨١٠  
١٤٢٤

٢٢٢٧١٦١٥ - ٢٢٢٧١٣٦٢  
٢٧٦٠٧٥٤١ - ٢٢٢٥٥١٩٢



E-mail: nrc1302a@yahoo.com



**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 Results On a Sample of Tri Prime 1010***

***Delivered from Tri chem construction chemicals***

***1- Bond Strength Test to concrete according to ASTM D4541***

No.	Bond St. (N/mm <sup>2</sup> )	The mean value (N/mm <sup>2</sup> )
1	1.21	1.24
2	1.32	
3	1.18	

\* Failure to concrete

***2- Bond Strength Test to steel according to ASTM D4541***

No.	Bond St. (N/mm <sup>2</sup> )	The mean value (N/mm <sup>2</sup> )
1	2.23	2.31
2	2.31	
3	2.40	

المركز القومي للبحوث  
الدقى . القاهرة . جمهورية مصر العربية  
وحدة التحاليل والخدمات العلمية المركزية  
معمل اختبار المواد  
17  
2019



(3/4-1899)

شارع التحرير - الدقى - القاهرة

مباشر ٣٣٣٨٧٨٠٣  
وفاكس ١٨١٠

داخلى ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢  
٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



E-mail: nrc1302a@yahoo.com



**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 التحليل والخدمات العلمية المركزية  
معمل اختبار المواد



*This report was given to you representing only the results for testing Sample of Tri Prime 1010 , delivered from Tri chem 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 .*

*These results represent only the delivered sample and not any stored or produced quantities for any other purpose or project, Unauthorized reproduction of this report or any copy of it by any way or for any target is prohibited.*

**Head of Director of The Board of Central Department  
for Scientific Analysis and Tests**

&

**SUPERVISOR  
OF Material Test Lab**

**PROF.DR. MOSTAFA ZAKI MOSTAF**

17  
10 2019



(4/4-1899)

شارع التحرير - الدقى - القاهرة

مباشر ٣٣٢٨٧٨٠٣

وفاكس ١٨١٠

داخلى ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢

٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



E-mail: nrc1302a@yahoo.com