



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 و الخدمات العلمية المركزية  
معمل اختبار المواد



# Test Report

<b>Report No.</b>	<b>MOI 8893 07 2022</b>
<b>Client</b>	<b>Tri-chem Construction chemicals</b>
<b>Authority &amp; date</b>	<b>Request Orders 4/7/2022</b>
<b>Items Tested</b>	<b>Tri prime SB</b>
<b>Results</b>	The detailed test results are given on the following pages of this report ( 4 pages) .
<b>Report Typist</b>	* Mis. Naglaa Mohamed-Sara Abdel Reheam
<b>Test carried by</b>	Noha Samir * Mis . Fatma El Zahraa Fikry * H.Eng. Ahmed Said * Chem. Amr El Shafey * Dr. Abou El Ftouh Abd El Hakem
<b>Authorized by</b>	Prof. Dr. Mostafa Zaki Mostafa * The Supervisor of ceramics, Polymer and Solid Matter Department. * Management Representative and Quality Assurance Manager.
<b>Issue date</b>	11/8/2022
<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 .

شارع التحرير - الدقى - القاهرة

٣٣٣٨٧٨٠٣

مباشر  
فاكس

١٨١٠  
١٤٢٤

داخلى

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 التحاليل و الخدمات العلمية المركزية  
معمل اختبار المواد



### To / Tri-chem Construction chemicals

Dear Sir.,

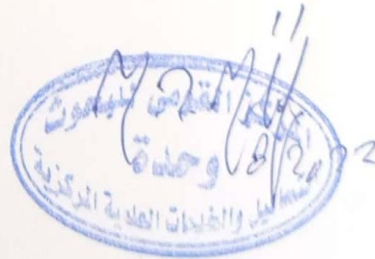
With correspondence to your request dated 4/7/2022 concerning the testing sample of Tri prime SB , We would like to inform you that the all following needed tests were carried out which namely:

#### 1- Bond strength test to concrete according to ASTM C321

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  $\pm 0.01$ mm was used for dimensions evaluation.
- 3- All used Machineries and apparatuses were calibrated periodically.

The following table gives the obtained results representing the sample delivered from your company .



شارع التحرير - الدقى - القاهرة

٣٣٣٨٧٨٠٣

مباشر  
فاكس

١٨١٠  
١٤٢٤

داخلى

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

القاهرة . جمهورية مصر العربية  
وحدة التحليل و الخدمات العلمية المركزية  
معمل اختبار المواد



*Bond strength test to concrete according to ASTM C321*

*On a sample of Tri prime SB*

*Delivered from Tri-chem Construction chemicals*

<i>No.</i>	<i>Bond strength (N/mm<sup>2</sup>)</i>	<i>Mean (N/mm<sup>2</sup>)</i>
<i>1</i>	<i>1.57</i>	<i>1.53</i>
<i>2</i>	<i>1.49</i>	
<i>3</i>	<i>1.53</i>	
<i>4</i>	<i>1.57</i>	
<i>5</i>	<i>1.51</i>	

*\*Failure in concrete*



شارع التحرير - الدقي - القاهرة

مباشر ١٨١٠  
فاكس ٣٣٣٨٧٨٠٣

داخلي 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 و الخدمات العلمية المركزية  
معمل اختبار المواد



*This report was given to you representing only the results for the testing sample of Tri prime SB , 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 .*

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

&

**SUPERVISOR 1)  
OF CERAMICS, POLYMER AND  
SOLID MATTER DEPARTMENT**

**PROF.DR. MOSTAFA ZAKI MOSTAFA**



شارع التحرير - الدقى - القاهرة

٣٣٣٨٧٨٠٣

مباشر  
فاكس

١٨١٠

١٤٢٤

داخلي

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢

٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



E-mail : nrc1302a@yahoo.com