





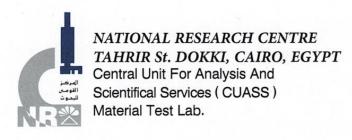
# Test Report

	Test Keport
Report No. Client Authority & date	MO1 8444 04 2022 Tri-chem Construction chemicals Request Orders 28/4/2022
Items Tested Results	TRI - FLOOR SF  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 Condition of Test & Issue	t 19/5/2022 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.







#### To / Tri-chem Construction chemicals

#### Dear Sir.,

With correspondence to your request dated 28/4/2022 concerning the testing sample of TRI - FLOOR SF, 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- Hardness test (Shore D) according to ASTM D2240
- 3- Compressive strength test according to ASTM C579
- 4- Flexural strength test according to ASTM C580
- 5- Tensile strength Test according to ASTM D638

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- On heating a Memmert West Germany oven was used.
- 4- Weighing Balance with tolerance + 0.0001 g was used in determining the weights.
- 5- Braive Instruments
- 6- All used Machineries and apparatuses were calibrated periodically

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







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

وحدة التحاليل و الخدمات العلمية المركزية معمل اختبار المواد



# Material Test Lab. Test results on a sample of TRI - FLOOR SF

#### Delivered from Tri-chem Construction chemicals

#### 1- Bond strength test to concrete according to ASTM D4541

No.	Bond strength (N/mm2)	Mean (N/mm2)
1	1.33	
2	1.49	
3	1.36	1.38
4	1.35	
5	1.35	

#### 2- Hardness test (Shore D) according to ASTM D2240

No.	Hardness (Shore D)	The mean value
1	79	
2	79	
3	80	78
4	80	
5	80	

### 3- Compressive strength test according to ASTM C579

No.	Compressive strength (N/mm2)	The mean value (N/mm2)
1	55.71	
2	56.93	
3	54.26	54.95
4	54.01	
5	53.82	

شارع التحرير - الدقى - القاهرة

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

# المركز القومى للبحوث

الدقس . القاهرة . حمهورية مصر العربية وحدة التحاليل و الخدمات العلمية المركزية معمل اختبار المواد



## Test results on a sample of TRI - FLOOR SF

#### Delivered from Tri-chem Construction chemicals

#### 4- Flexural strength test according to ASTM C580

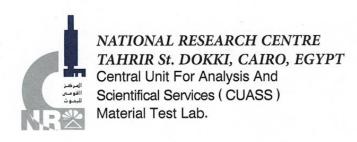
No.	Flexural strength (N/mm2)	Mean (N/mm2)
1	22.13	
2	23.91	
3	23.01	23.39
4	23.89	4
5	24.01	

#### 5- Tensile strength Test according to ASTM D638

No.	Tensile strength (N/mm2)	The mean value (N/mm2)
1	15.07	
2	15.29	
3	15.11	15.18
4	15.03	
5	15.42	









This report was given to you representing only the results for the testing sample of TRI - FLOOR SF, 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 Depertment for Scientifical Analysis and Tests

SUPERVISOR

OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT

PROF.DR. MOSTAPA ZAKI MOST