



Test Report

Report No.

MO1 4514 12 2020

Client

Tri-chem Construction chemicals

Authority & date

Request Orders Date 13/12/2020

Items Tested

Tri- Grout AG

Results

The detailed test results are given on the following pages of this report (4 pages)

Report Typist

* Mis. Naglaa Mohamed-Sara Abdel Reheam

Test carried

* Mis. Fatma El – Zahraa Fikry

and supervised by

* 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

3/2/2021

Condition of Test & Issue

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 .





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



To / Tri-chem Construction chemicals

Dear Sir.,

With correspondence to your request dated 13/12/2020 concerning the sample of Tri- Grout AG , We would like to inform you that the all following needed test were carried out which namely:-

- 1- Compressive strength test after 28days according to ASTM C579**
- 2- Flexural strength test after 28days according to ASTM C580**

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 – 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-Weighing Balance with tolerance + 0.0001 g was used in determining the weights*
- 4- The all used Machinery and the apparatus were calibrated periodically .*

The following table gives the obtained results representing the sample applied by your company.



Test results on a sample of Tri- Grout AG
Delivered from Tri-chem Construction chemicals

1- Compressive strength test after 28days
according to ASTM C579

No.	Compressive strength (N/mm ²)	Mean (N/mm ²)
1	51.63	52.45
2	52.22	
3	53.49	

2- Flexural strength test after 28days
according to ASTM C580

No.	Flexural strength (N/mm ²)	Modulus of elasticity (N/mm ²)
1	20.11	123.63
2	19.73	147.11
3	18.87	132.59
Mean	19.57	134.44





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*This report was given to you representing only the results for the sample of Tri- Grout AG , 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 3
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA ZAKI MOSTAFA

