



Test Report

Report No.

Client

Authority & date

Items Tested

Results

Report Typist

Test carried

and supervised by

Authorized by

Issue date

**Condition of Test
& Issue**

MO1 5950 07 2021

Tri-chem Construction chemicals

Request Orders Date 14/7/2021

TRI- ACRYPROOF

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

* **Mis. Naglaa Mohamed-Sara Abdel Reheam**

* **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.**

1/8/2021

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 14/7/2021 concerning the sample of TRI- ACRYPROOF, We would like to inform you that the all following needed test were carried out which namely:-

1- Water permeability test according to CRD C48 .

2- Elongation test according to ASTM D412

3- Crack bridging test according to ASTM C1305

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 ± 0.01 mm 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.

8/7/2021





Test results on a sample of TRI- ACRYPROOF
Delivered from Tri-chem Construction chemicals
1- Water permeability test according to CRD C48

* The sample with thickness 300 micron un permeable to water head up to 3 bar .

2- Elongation test according to ASTM C307

No.	Elongation (%)	Mean (%)
1	49.21	51.1
2	53.05	
3	52.63	
4	51.61	
5	48.99	

3- Crack bridging test according to ASTM C1305

No.	No. of cycles	Maximum (mm) movement	Observation
1	10	0.5	No failure
2		0.5	
3		0.5	
4		0.5	
5		0.5	

* The sample resist the crack (0.5mm) without any observable changed .

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*This report was given to you representing only the results for the sample of TRI- ACRYPROOF, 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
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA ZAKI MOSTAFA

8/2021

شارع التحرير - الدقى - القاهرة

مباشر ٣٣٣٨٧٨٠٣

وفاكس ١٤٢٤

داخلى ١٨١٠

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢

٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



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