



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

Report No.	MO1 8891 07 2022
Client	Tri-chem Construction chemicals
Authority & date	Request Orders 4/7/2022
Items Tested	Tri coat 700
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 by	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	11/8/2022
Condition of Test & Issue	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 .



شارع التحرير - الدقى - القاهرة

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٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



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TO/ Tri-chem Construction chemicals

Dear Sir,

With correspondence to your request dated 13/4/2022 concerning the testing sample of Tri coat 700 , We would like to inform you that the all following needed tests were carried out which namely:

- 1- UV resistance test according to ASTM G154**
- 2- Chemical resistance test at 23°C for 48hrs according to ASTM C267**

We would like to inform you that the needed test was carried out taking into consideration the following conditions :

- 1- Accelerated weathering tester model QUV/se made in USA .*
- 2- All used Machineries and apparatuses were calibrated periodically.*

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



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UV resistance test according to ASTM G154

On a sample of Tri coat 700

Delivered from Tri-chem Construction chemicals

<i>Exposure time (h)</i>	<i>Exposure temp. (°C)</i>	<i>Light source</i>	<i>Irradiance (w/m2)</i>	<i>Results</i>	
				<i>Observation</i>	<i>Δ E</i>
<i>100</i>	<i>60</i>	<i>313nm UV-B cycle 2</i>	<i>0.71</i>	<i>Without any cracks</i>	<i>2.01</i>

Chemical resistance test at 23°C for 48hrs

according to ASTM C267

<i>No.</i>	<i>Chemicals</i>	<i>Results</i>
<i>1</i>	<i>Hydrochloric acid 10%</i>	<i>No effect</i>
<i>2</i>	<i>Sulfuric acid 10%</i>	<i>No effect</i>
<i>3</i>	<i>Acetic acid 10%</i>	<i>No effect</i>
<i>4</i>	<i>Sodium hydroxide 50%</i>	<i>No effect</i>
<i>5</i>	<i>Potassium hydroxide 50%</i>	<i>No effect</i>
<i>6</i>	<i>Sodium Chloride 50%</i>	<i>No effect</i>



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This report was given to you representing only the results for the testing sample of Tri coat 700 , 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 11
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA-ZAKI MOSTAFA



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