



Test Results On a Sample of Tri Coat 200 AC

Delivered from Tri chem construction chemicals

4- Bond Strength Test to steel according to ASTM D4541

No.	Bond St. (N/mm ²)	The mean value (N/mm ²)
1	2.23	2.44
2	2.65	
3	2.43	

5- Accelerated Weathering Results by U.V for 50 hrs

(U.V + Ozone + Humidity 60% + Temperature 40°C)

according to ASTM G153

Sample	Before Weathering	After Weathering
L	90.16	89.66
a	-0.36	-0.55
b	3.96	4.25
Y	72.50	71.40
X	76.64	75.58
Z	77.02	75.50
ΔE	1.456	

* There is change in color (ΔE more than absolute one).

(4/5-1898)





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 1898 09 2019

Tri chem construction chemicals

Request Orders 11/9/2019

Tri Coat 200 AC

The detailed test results are given on the following pages of this report (5 pages).

* **Mis. Sara Abdel Rehim – Naglaa Mohamed**

* **Mis . Fatma El – Zahraa Fikry**

* **H.Eng. Ahmed Sayed**

* **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.**

5/11/2019

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 .



(1/5-1898)





To / Tri chem construction chemicals

Dear Sir.,

With correspondence to your request dated 11/9/2019 concerning the testing Sample of Tri Coat 200 AC , We would like to inform you that the all following needed tests were carried out which namely :-

- 1- Abrasion resistance test according to ASTM D4060
- 2- Salt Spry Test according to ASTM B117
- 3- Bond Strength Test to concrete according to ASTM D4541
- 4- Bond Strength Test to steel according to ASTM D4541
- 5- Accelerated Weathering Results by U.V for 50 hrs (U.V + Ozone + Humidity 60% + Temperature 40°C) according to ASTM G153

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- Testing Machine was used This type of GALDABINI 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-Weighing Balance with tolerance+0.0001g was used in determining the weights
- 3-Measuring drum of sensitivity+0.01mm was used for dimensions evaluation
- 4- MOI Salt Spray test .
- 5-In Accelerated UV Weathering test used fadeometer machine type Philips.
- 6- Taber Model 505 DUAL ABRASER Tester
- 7- The all used Machinery and the apparatus were calibrated periodically .

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



(2/5-1898)





This report was given to you representing only the results for testing Sample of Tri Coat 200 AC , 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 .

These results represent only the delivered sample and not any stored or produced quantities for any other purpose or project, Unauthorized reproduction of this report or any copy of it by any way or for any target is prohibited.

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

&

SUPERVISOR
OF Material Test Lab

PROF.DR. MOSTAFA ZAKI MOSTAF

(5/5-1898)





Test Results On a Sample of Tri Coat 200 AC

Delivered from Tri chem construction chemicals

1- Abrasion resistance test according to ASTM D4060

<i>No. of cycle</i>	<i>Used wheel</i>	<i>Load (g)</i>	<i>Weight loss (mg)</i>
1000	CS 17	1000	83

2- Salt Spry Test according to ASTM B117

<i>Time (hrs)</i>	<i>Solution</i>	<i>Type</i>	<i>Results</i>
240	NaCl	N.S.S	No any rust was observed

3- Bond Strength Test to concrete according to ASTM D4541

<i>No.</i>	<i>Bond St. (N/mm2)</i>	<i>The mean value (N/mm2)</i>
1	1.37	1.39
2	1.39	
3	1.42	

* Failure to concrete

