



LABORATORY REPORT

Jelaram Esdee Manufacturing PLC

Introduction: Further to the request received from **Jelaram Esdee manufacturing PLC**, dated on 21st December 2019 for the testing of Jelaram Esdee Epoxy Top Coat.

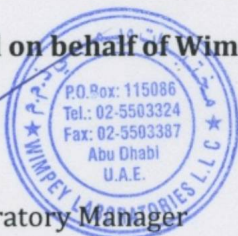
Sample Description :Jelaram Esdee Epoxy Top Coat
:Part A-Base, Part B- Hardener, Part C- Filler
Date Received :21-12-2019
Date of Test :23/12/2019
Tested by :AS
Test Method :ASTM D 1308
Report No :WACG-20/214/5
Sample No :WACG-20/214
Date Reported :21/02/2020

Chemical resistant

Chemicals	Observation	Remark
1% Hydrochloric Acid	No discoloration, change in gloss, blistering, softening, swelling, loss of adhesion, or special phenomena	Pass
0.8% Sodium Hydroxide		
1% Acetic Acid		
Tea		
Coffee		
Cocacola		
Pepsi cola		
Tomato Ketchup		
Handwash		

Signed for and on behalf of Wimpey Laboratories L.L.C

Sreejith MI
Assistant Laboratory Manager



Test results relate only to the samples tested
This report shall not be reproduced except in full, without the written approval of the laboratory





LABORATORY REPORT

Jelaram Esdee manufacturing PLC

Report No: WACG 20-214/2

Sample No: WACG 20-214

Date of Report: 21/02/2020

Introduction: Further to the request received from Jelaram Esdee manufacturing PLC dated 12-12-2019, the sample was tested for the Compressive Strength.

Client : Jelaram Esdee Manufacturing PLC

Consultant : N.G

Project : N.G

Sample Description : Jelaram Esdee Epoxy Top Coat

Date of Test : 21-02-2020

Sample Received : 21-12-2019

Tested By : SJ

Date of Casting : 23-12-2019

Age at Test : 28 days

COMPRESSIVE STRENGTH (BS 6319-2)

Sample Description : PRISM (160mmX40mmX40mm)

Lab Sample No.	Max. Load (N)	Compressive Strength (N/mm ²)
WACG20-0214/1.1	86940	54.34
WACG20-0214/1.2	92960	58.10
WACG20-0214/1.3	79480	49.68
WACG20-0214/1.4	78640	49.15
WACG20-0214/1.5	87390	54.62
WACG20-0214/1.6	84140	52.59
	Average	53.08

Minimum requirement for compressive strength is 45.0 N/mm²

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HASAN SIDDIQUE

Laboratory Manager

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LABORATORY REPORT

Jelaram Esdee manufacturing plc

Report No: WACG-20/214/4

Sample No: WACG -20/214

Date Reported: 21/02/2020

Introduction: Further to the request received from Jelaram Esdee manufacturing plc, dated on 21st December 2019 for the testing of Jelaram Esdee Epoxy Top Coat.

Date Received	:	21-12-2019
Date of Casting	:	23-12-2019
Date of Test	:	21-02-2020
Location of Test	:	Laboratory
Sample Description	:	Jelaram Esdee Epoxy Top Coat
Tested by	:	DS*

Abrasion Resistance

Test Method: ASTM D 4060-10

Test Temperature : 23±2°C

R. Humidity : 50±5%

Wheel Reference: CS-17

Weight Applied: 1000gm

No. of Revolution: 1000 cycles

Test	Unit	Result	Specification Limit (mg)
Weight loss	mg	12.0	10 to 15

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HASAN SIDDIQUE

Laboratory Manager

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LABORATORY REPORT

Jelaram Esdee manufacturing PLC

Report No: WACG-20/214/3

Sample No: WACG-20/214

Date Reported: 21/02/2020

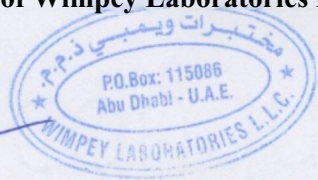
Introduction: Further to the request received from **Jelaram Esdee manufacturing PLC**, dated on 21st December 2019 for the testing of Jelaram Esdee Epoxy Top Coat.

Date Received	:	21-12-2019
Date of Casting	:	23-12-2019
Date of Test	:	21-02-2020
Location of Test	:	Laboratory
Sample Description	:	Jelaram Esdee Epoxy Top Coat
Tested by	:	SJ

Test Method: BS 1881:207

DESCRIPTION	RESULTS		
Test Number	1	2	3
Test Position	Vertical	Vertical	Vertical
Cylindrical Metal Block (Dolly) Reference	1	2	3
Diameter of Dolly (mm)	20	20	20
Max. Load at Failure (kN)	1.493	1.518	1.536
Pull off Strength (N/mm ²)	4.8	4.8	4.9
Average	4.8		
Specification Limit (N/mm ²)	Minimum 4.0		
Mode of Failure	Failure not occurred in the epoxy coating.		
Age of Test	28 Days		

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HASAN SIDDIQUE

Laboratory Manager

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LABORATORY REPORT

Jelaram Esdee Manufacturing

Report No: WACG-20/214/1

Sample No: WACG-20/214

Date Reported: 21/02/2020

Introduction: Further to the request received from **Jelaram Esdee manufacturing PLC**, dated on 21st December 2019 for the testing of Jelaram Esdee Epoxy Top Coat.

Date Received	:	21-12-2019
Date of Test	:	21-02-2020
Location of Test	:	Laboratory
Sample Description	:	Jelaram Esdee Epoxy Top Coat
Tested by	:	DS*

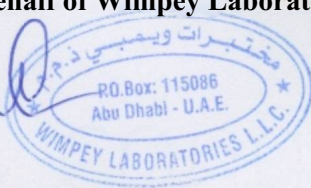
Test Method: ASTM D 1640
Test Temperature : 23±2°C
Relative Humidity : 50±5%

Test	Unit	Result	Specification
Drying Time	Minutes	25	20 to 30 Minutes

Marking & Appearance	After mixing the Jelaram Esdee epoxy topcoat appears homogenous without any blush or fade.
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Laboratory Manager



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