



TEST REPORT ON PULL-OFF ADHESION STRENGTH

Customer Name	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Project Name	N.G	Lab Report No.	WD-R-231023-0642/1
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Lab Request No.	WD-Q-231023-0163
Source	Kadisco Paint and Adhesive Industry S.C	Sample No.	WD-S-231023-0611
Test Method	ASTM D4541-22	Wimpey Ref No.	23102331
Machine Details	Manufacturer: Elcometer Model: 510-50T Serial Number: WA 22213	Date Received	23/10/2023
Location	In-House	Date Tested	04/11/2023
Test Temperature & Relative Humidity	23°C & 50%	Date Reported	14/11/2023
Substrate Used	Concrete	Cast Date	28/10/2023
Adhesive Used	Two Component Epoxy	Curing Condition	7 days at 23°C
Tested By	SU		

Test Procedure

The general pull-off test is performed by securing a loading fixture (dolly, stud) normal (perpendicular) to the surface of the coating with an adhesive. After the adhesive is cured, a testing apparatus is attached to the loading fixture and aligned to apply tension normal to the test surface. The force applied to the loading fixture is then gradually increased and monitored until either a plug of material is detached, or a specified value is reached. When a plug of material is detached the exposed surface represents the plane of limiting strength within the system.

The nature of the failure is qualified in accordance with the percent of adhesive and cohesive failures, and the actual interfaces and layers involved.

The pull-off strength is computed based on the maximum indicated load

Description	RESULTS		
Test Number	1	2	3
Test Position	Vertical	Vertical	Vertical
Size of Dolly (mm)	50	50	50
Max. Load Applied (N)	6540	6270	6430
Pull off Strength (N/mm ²)	3.33	3.19	3.27
Average Pull off Strength (N/mm ²)	3.26		
Mode of Failure	100% Failure observed from Concrete		

Remarks: None

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

S. Sarath Kumar
Head of Department

Test results relate only to the samples tested.

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TEST REPORT ON TENSILE STRENGTH

Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Lab Report No.	WD-R-231023-0642/2
Source	N.G	Lab Request No.	WD-Q-231023-0163
Curing and test condition	Temperature: 23°C Relative Humidity: 50%	Sample No.	WD-S-231023-0611
Sampling Method	ASTM D412-16(2021)	Date Received	23/10/2023
Test Method	ASTM D412-16(2021)	Casting Date	28/10/2023
Specimen Type	Test Method A – Die C	Curing Time	7 DAYS
Rate of Speed	500 mm/minute	Date Tested	04/11/2023
Wimpey Ref No.	23102331	Date Reported	14/11/2023
Tested By	PK		

Test Results

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Tensile Strength (N/mm ²)	Elongation %
1	6.0	2.20	211.07	15.99	26.9
2	6.0	2.00	190.44	15.87	24.2
3	6.0	2.20	213.18	16.15	35.9
4	6.0	2.10	193.79	15.38	38.6
5	6.0	2.15	210.27	16.30	26.9
Average				15.9	30.5

Remarks: None

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S. Sarath Kumar
Head of Department

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TEST REPORT ON SHORE HARDNESS

Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Project Name	N.G	Lab Report No.	WD-R-231023-0642/3
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Lab Request No.	WD-Q-231023-0163
Source	Kadisco Paint and Adhesive Industry S.C	Sample No.	WD-S-231023-0611
Test Method	ASTM D2240-15(2021)	Wimpey Ref No.	23102331
Equipment Type	Durometer Shore D	Date Received	23/10/2023
Equipment Model	SHR-D-GOLD	Date Tested	04/11/2023
Serial Number	23167	Date Reported	14/11/2023
Mean of Testing	Manual	Indentation Hardness Time	1 second
Curing Condition	7 Days 23°C	Tested By	PK

Test Result

Test	Test Readings	Result
Shore D Hardness	52,54,55,50,54	D/53/1

Remarks: None

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Head of Department

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LABORATORY TEST REPORT ON ABRASION RESISTANCE

*Information Provided to the Laboratory			
Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia	Sample Description	Apcoflor HFP 120 + Apcoflor SL2
Contractor	N.G	Source	Kadisco Paint and Adhesive Industry S.C
Consultant	N.G	Sample Identification	N.G
Client	N.G	Location (Structure Ref)	N.G
Project	N.G	Sampling Date/Time	N.G

Laboratory Information			
Test Method	ASTM D4060-19	Lab Report No.	WD-R-231023-0642/4
Test Method Variation	None	Sample No.	WD-S-231023-0611
Specimen Thickness	250 microns	Date Received	23/10/2023
Wheel Reference	CS-17	Date Tested	04/11/2023
Mass Applied on each wheel	1000g	Date Reported	14/11/2023
Vacuum Opening Diameter	8mm	Test Temperature	23°C
No. of Revolution	1000	Relative Humidity	50 %
Vacuum Nozzle Height	6.2mm	Conditioning Procedure	23°C & 50% RH
Vacuum Suction Force	100%	Sampled by	N.G
Tested By	PK	Sample Brought in by	N.G

Test Results

Specimen Number	Unit	Weight Lost
1	mg	78.1
2		79.6
Average		78.9

Legends: N.G – Information Not Given

Remarks: Wear index not measured

Method Deviation: None

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S.Sarath Kumar
Head of Department

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*The information provided by the customer can affect the validity of result.

When the sample has been provided by the Customer, the results apply to the sample as received.

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TEST REPORT ON FLEXURAL STRENGTH

Information Provided to the Laboratory			
Customer Name	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia	Sample Identification	N.G
Project	N.G	Sampling Date/Time	N.G
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Sample Source	Kadisco Paint and Adhesive Industry S.C

Laboratory Information			
Test Temperature	23°C	Lab Report No.	WD-R-231023-0642/5
Relative Humidity	50%	Lab Request No.	WD-Q-231023-0163
Conditioning Procedure	7 days at 23°C	Sample No.	WD-S-231023-0611
Test Method	ASTM C580-23	Date Received	23/10/2023
Method Used	Method A	Casting Date	28/10/2023
Test Method Variation	None	Curing Time	7 Days
Sampled by	Customer	Date Tested	04/11/2023
Sample Brought in by	Customer	Date Reported	14/11/2023
Wimpey Reference	23102331	Tested By	PK

Test Results

Sample Reference	Span Length (mm)	Width (mm)	Thickness (mm)	Max. Load @ Failure (N)	Flexural Strength (N/mm ²)
WD-S-231023-0611	230	25.0	25.0	1123.2	24.8
	230	25.0	25.0	1177.5	26.0
	230	25.0	25.0	1154.9	25.5
Average					25.4

Remarks: Three specimens only tested.

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S. Sarath Kumar
Head of Department

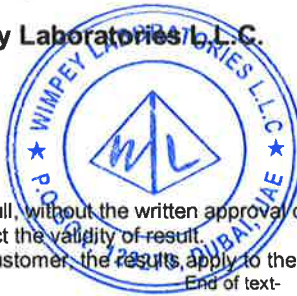
Test results relate only to the samples tested

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TEST REPORT ON COMPRESSIVE STRENGTH

Information Provided to the Laboratory			
Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia	Batch No.	N.G
Product Type	N.G	Sampling Date/Time	N.G
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Source	Kadisco Paint and Adhesive Industry S.C

Laboratory Information			
Test Temperature	23°C	Lab Report No.	WD-R-231023-0642/6
Relative Humidity	50%	Lab Request No.	WD-Q-231023-0163
Conditioning Procedure	7 Days at 23°C	Sample No.	WD-S-231023-0611
Test Method	ASTM C579-23	Date Received	23/10/2023
Sampling Method	ASTM C579-23	Casting Date	28/10/2023
Rate of Loading	Load Rate 1.7 kN/s	Curing Time	7 Days
Test Method Variation	None	Date Tested	04/11/2023
Sampled by	N.G	Date Reported	14/11/2023
Sample Brought in by	N.G	Appearance of Specimens	Good
Wimpey Ref. No	23102331	Tested By	PK

Test Result

Sample No.	Length (mm)	Width (mm)	Height (mm)	Max. Load @ Failure (kN)	Compressive Strength (N/mm ²)	Type of Failure
1	50.0	50.0	50.0	138.75	55.5	SF
2	50.0	50.0	50.0	132.25	52.9	SF
3	50.0	50.0	50.0	140.00	56.0	SF
Average Compressive Strength					54.8	-

Remarks: None.

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Head of Department

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TEST REPORT ON CRACK BRIDGING ABILITY

Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Project Name	N.G	Lab Report No.	WD-R-231023-0642/7
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Lab Request No.	WD-Q-231023-0163
Source	Kadisco Paint and Adhesive Industry S.C	Sample No.	WD-S-231023-0611
Test Specification	EN 1062-1:2004	Wimpey Ref No.	23102331
Test Method	EN 1062-7:2004	Date Received	23/10/2023
Nature of Substrate	Concrete	Date Tested	04/11/2023
Substrate Dimension(mm)	50 W x 75 L	Date Reported	14/11/2023
No. of coat & Method of application	2 Coat, Brush	Cast Date	28/10/2023
Test Condition	Temperature: 23°C Relative Humidity: 50%	Tested By	PK

Test Results

Test	Crack Width (mm)	Observation
Crack Bridging Ability	2.50	No sign of cracks, loss of adhesion or any other type of failure was observed after completion of the up and down movement.

Remarks: None.

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S. Sarath Kumar

Head of Department

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TEST REPORT ON IMPACT RESISTANCE

Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia		
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Lab Report No.	WD-R-231023-0642/8
Source	Kadisco Paint and Adhesive Industry S.C	Lab Request No.	WD-Q-231023-0163
Test Method	ISO 6272-2	Sample No.	WD-S-231023-0611
Conditioning & Test Temperature	23°C & 50% RH	Date Received	23/10/2023
Drop Height	0.85 m	Date Tested	04/11/2023
Drop Mass	1.80 kg	Date Reported	14/11/2023
Substrate	Steel Panel	Sampling Size	150 X 75 MM
Wimpey Ref No	23102331	Curing days	N.G
Tested By	PK		

Test Result

Test	Unit	Result
Impact Strength	Kg.m	1.440

Remarks: None

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Head of Department

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TEST REPORT ON CHEMICAL RESISTANCE

Client	Kadisco Paint and Adhesive Industry S.C P.O Box: 120919 Ethiopia	Lab Report No.	WD-R-231023-0642/9
Project	N.G	Lab Request No.	WD-Q-231023-0163
Sample Description	Apcoflor HFP 120 + Apcoflor SL2	Sample No.	WD-S-231023-0611
Source	Kadisco Paint and Adhesive Industry S.C	Wimpey Ref No.	23102331
Test Method	ASTM D543-20	Date Received	23/10/2023
Client reference	N.G	Date Tested	13/11/2023
Conditioning Procedure	7 days at 23°C	Date Reported	16/11/2023
Exposure Duration	24Hours	Relative Humidity	50%
Method used	Immersion	Tested By	PK

Test Result

Sample Ref.	Test	Observation	Type of Effect	Result
WD-S-231023-0611	Sodium Chloride (5%)	No discoloration, blistering, swelling, softening, or special phenomenon	A	Resistant
	Acetic Acid (10%)		A	Resistant
	Potassium Hydroxide (10%)		A	Resistant
	Hydrochloric Acid (3%)		A	Resistant
	Olive Oil		A	Resistant

Type of effects

A: No discoloration, Change in gloss, Blistering, Swelling, Softening, Loss of adhesion or Special phenomenon.

B: 1. Discoloration, 2. Change in gloss, 3. Blistering, 4. Swelling, 5. Softening, 6. Loss of adhesion, 7. Special phenomenon.

Remarks: None.

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LB-TEST-223

Test Report on Depth of Penetration of Water Under Pressure Positive

Customer Name	: Kadisco Paint and Adhesive Industry S.C	Report No.	: WD-R-231023-0642/11
Address	: Ethiopia	Request No.	: WD-Q-231023-0163
Contractor	: N.G	Sample No.	: WD-S-231023-0611
Consultant	: N.G	Date Reported	: 06/12/2023
Project Name	: N.G	Sampling Certificate	: N.G
Sample Description	: Apcoflor HFP 120 + Apcoflor SL2	Sample Casted on	: N.A
Source of Material	: Kadisco Paint and Adhesive Industry S.C	Date Test Started	: 21/11/2023
Sample Identification	: N.G	Date Test Completed	: 24/11/2023
Mixcode	: N.G	Sampling Method	: N.A
Date of Sampling	: N.G	Lot Size m ³	: N.G
Sample Received Date	: 23/10/2023	Lot No.	: N.G
Moisture Condition	: N.A	Slump Measure mm	: N.G
Test Method Variation	: None	Sample size mm	: 150x150mm
Specification Strength	: N.G	Age of Test	: N.A
Location	: In House	Reqd. Test Age	: 72 Hours
Surface Treatment Done	By: Wimpey Lab	Pressure Applied	: 5 Bar
Test Method	: BS EN 12390-8		
Concrete Mix grade	: N.A		

Test Results

Sample Reference	WD-S-231023-0611		
Client's Reference	Control Sample 1	Test Sample 1	Test Sample 2
Appearance of Specimen	Good	Good	Good
Direction of application of water pressure with respect to the casting direction	Normal	Normal	Normal
Observation of presence of water leakage on the surface of sample during test	No Leakage	No Leakage	No Leakage
Water Penetration Depth (Maximum) (mm)	8	Nil	Nil

Remarks: Sample Applied on the concrete surface.

Legends: N.A. = Not applicable, N.G.= Not Given

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Head of Department

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LB-TEST-223

Test Report on Electrical Indication of Concrete's Ability to Resist Chloride Ion Permeability

Client	: Kadisco Paint and Adhesive Industry S.C	Report No.	: WD-R-231023-0642/10
Address	: Ethiopia	Request No.	: WD-Q-231023-0163
Project Name	: N.G	Sample No.	: WD-S-231023-0611
Consultant	: N.A	Date Reported	: 06/12/2023
Project Name	: N.A	Sampling Certificate	: N.A
Client	: N.A	Date Test Completed	: 07/11/2023
Contractor	: N.A	Sampling Method	: N.G
Sample Description	: Apcoflor HFP 120 + Apcoflor SL2	Lot No.	: N/A
Source of Material	: N.A	Slump Measure mm	: N/A
Client			
Reference/sample	: N.A	Sample size mm	: 100x50
Sampled by	: N.G	Age at Test	: 7 Days
Date of Sampling	: N.G	Wimpey Reference	: N.G
Sample Received Date	: 23/10/2023	Coating thickness	: N.G
Curing / Storage (Lab)	: 23°C at 7 Days	Sample brought in by	: Wimpey Lab
Test Method Variation	: None	Tested by	: PK
Specification Strength	: N/A		
Test Method	: ASTM C1202-23		
Project Name	: N.A		

Test Results

Sample Reference	1	2	3
Client's Reference	Control Sample	Test Samples	
Specimen diameter(mm)	100	100	100
Presence of reinforcement / location	None	None	None
Presence of overlay / thickness	None	None	None
Surface treatment / thickness	None	None	None
Removal of Surface treatment	N.A	N.A	N.A
Total Charge Passed in 6 hrs. (Coulombs)	1542	14	14.4
Average charge passed in 6 hrs. (Coulombs)	-	14.2	
Chloride ion penetrability	Low	Negligible	Negligible
Reduction in Chloride ion penetration	99.0		

Remarks: None

Legends: N.A = Not applicable, N.G = Not Given

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