

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company							
CU-(306+830)		Orange Company		(AHE & FHEOR) CONSULTANT							
Issued by Contractor	Name	Sign	Date	Designation							
	Eng: Hesham Magdy										
Contractor Reference		KP-ORANGE-SYS- CU-(306+830)-ST-MAR-								Revision 0000	
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference										Revision	
Received by ER	Eng: Ahmed Yehya		MAR	C1	C2	C3	DD	MM	YY	HH	MM
				KP	CU	CS	26	2	24		
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to D3 Depot Reference		CODE-1 Rp XXX For Kilometer point only		CODE-2 Work Activity			CODE-3 Sub Element of Activity		

Description of Materials	Bitumen ARMADA WB (cold applied bitumen emulsion for waterproofing)		
Location to be Used	CU-(306+830)		
Sample only	Yes / No	Materials Type	Bitumen WB
Supplier Name	Armada	Data Sheet provided	Yes attached
Reference in BoQ		Specification	Structure Specification
Prequalification reference		Test Samples Results	Approved
Reference Photos	Yes attached / No	Other	
Comments by:		Comments by:	
- Final approval at the station a sample was supplied in the site and tested through third party		- Please provide the N/A for material	

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor	Eng: Hesham Magdy				A
Designer					
GARB*					
Employers Representative				26/2/24	Av

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

Bitumen Armada WB

(cold applied bitumen emulsion for waterproofing)

Properties and advantages:

- It is cold applied on horizontal surface.
- Has an excellent and strong adhesion on structural materials such as (concrete .metal. Wood .bricks ... etc.).
- When it dries it gives a strong shining black membrane.
- It is not affected by atmospheric factors.
- Resists attack of chlorides and sulphates likely to be present in ground water.
- Solvent free.
- Easy to apply without any heating thus economical in cost.



Coverage:

All given rates depend on substrate conditions:

- As waterproofing coat: 750-1000 g\m² (2 coat).
- As protective coat: 250 g\m² (1 coat).
- As a primer coat: 200-250 g\m² (1 coat).

Application procedure:

- Apply two coats at right angle, you can begin applying the second coat when the color has turned from brown to black, this takes approximately from 20 to 30 min, depending on the nature of the treated surface.
- After use check that drum or pail should be closed well.



9108, 9th - El Hamd Building
Al-Mokattam - Cairo
0100 237 7065
0111 535 7262
Armada for Insulations
Info@armada-g.com
www.armada-g.com

ARMADA
For Trade and Construction



Technical properties:

S. Gat 25 °C	1.058 ± 10%
Solid content	35% ± 5%
Min drying temp.	2°C up to 40°C
Bone dry	Approx. 2 hours
Complete hardening	App 2-3 days
Shelf life at 20 °C	12 months

Specification:

- Complies with ASTM D 1227 (type III class I) and DIN 18195 part 2.

Packing:

- Drums: 180 Kg.
- Plastic pail: 10 - 15 kg.

Health and safety:

- Like all chemical products, avoid contact of ARMADA WB with eyes, mouth and skin.
- If accidental skin contact occurs, remove immediately with clear water and seek medical treatment.

Technical properties:

S. Gat 25 °C	1.058 ± 10%
Solid content	35% ± 5%
Min drying temp.	2°C Up to 60°C
Bone dry	Approx. 2 hours
Complete hardening	App 2-3 days
Shelf life at 20 °C	12 months

Specification:

- Complies with ASTM D 1227 Type II Class I and DIN 18195 part 2.

Packing:

- Drums: 180 Kg.
- Plastic pail: 10 - 15 kg

Health and safety:

- Like all chemical products, avoid contact of ARMADA WB with eyes, mouth and skin.
- If accidental skin contact occurs, remove immediately with clear water and seek medical treatment.

Technical properties:

S. Gat 25 °C	1.058 ± 10%
Solid content	35% ± 5%
Min drying temp.	2 °C up to 60 °C
Bone dry	Approx. 2 hours
Complete hardening	App 2-3 days
Shelf life at 20 °C	12 months

Specification:

- Complies with ASTM D 1227 type II class I and DIN 18195 part 2.

Packing:

- Drums: 180 Kg.
- Plastic pail: 10 - 15 kg.

Health and safety:

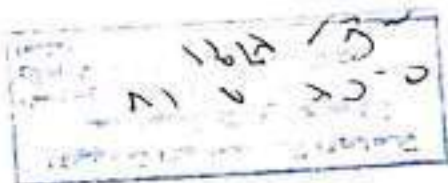
- Like all chemical products, avoid contact of ARMADA WB with eyes, mouth and skin.
- If accidental skin contact occurs, remove immediately with clear water and seek medical treatment.

1. 10011111 / 10011111
 2. 10011111 / 10011111
 3. 10011111 / 10011111



(६/ बङ्गाली भाषाभाषी मजदूर)

14



the student's response

[illegible]

الملاحظة	ملاحظات أخرى
1- اللون	اللون
2- المحتوى المائي بالوزن (%)	المحتوى المائي بالوزن (%)
3- مقاومة الماء	مقاومة الماء

- : ארבעה חלקים : חלק א' : חלק ב' : חלק ג' : חלק ד'

المسألة الأولى في بيان ما هو المشقة التي هي المشقة التي هي المشقة

[illegible]

EOSC2/3-1

“...*... ..*”

1. ଆମର ସମସ୍ତ କାର୍ଯ୍ୟକ୍ରମ ସମ୍ପାଦନା କରିବାକୁ
 2. ଆମର ସମସ୍ତ କାର୍ଯ୍ୟକ୍ରମ ସମ୍ପାଦନା କରିବାକୁ

المسألة الأولى في معرفة الخصال والصفات
التي هي من صفات الله تعالى



Egyptian Organization for
Standardization & Quality (EOS)

Future



For & On behalf of (ACE)
 DATE 21/8/2023
 PROJECT MANAGER 21/08/2023
☒ A-APPROVED
☐ B-APPROVED AS NOTED, WORK MAY PROCEED - INCORPORATE COMMENTS
☐ C-REVISE / RESUBMIT
☐ D-REJECTED
 DATE

بناءً على ما ورد في التقرير
 رقم 25 لسنة 2023
 ووافق عليه السيد /

ACE PROJECT MANAGEMENT Taj City 21 AUG 2023 ACE Receive:		Build up construction Received 25 أغسطس 2023 Contractor Receive:
CONTRACTOR SIGNATURE: _____ Date: 21/8/2023		
Comparison in case of Alternative Submittal		
Specification Comparison Sheet		
Description of Attachments:		
Specification:		
BOQ Ref:		
Description of Material:		
Manufacturer (ARAKADA & ALMOKATTAM - CAIRO 9)		
Supplier / Local Agent:		
Discipline: CML		
MATERIAL SUBMISSION DESCRIPTION		

TO: Shehri Mousa (Project Manager, ACE) FROM: Wael Khater (Project Manager, BU) TITLE: Armada Bitumen WB SUBMISSION DATE: 21/08/2023 REVISION NO.: Rev. 00 SUBMITTAL NO.: PK11-A-TV-Buildup-ACE-MAR-0001	C/REF.: SUBMISSION DATE: 21/08/2023
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MATERIAL SUBMITTAL FORM - (MARI) Package No.: PK11-A	Contract No.:
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Taj City Development ACE PROJECT MANAGEMENT Build up	mnhd mnhd
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(20/1/2023)
 20/1/2023

PROJECT NAME CONTRACT NO		OWNER SUB CONTRACTOR		DATE 30/04/2023	
ITEM DESCRIPTION (RETURN ARMADA WBI WB)		CONTRACTOR SINAG COMPANY		DATE 30/04/2023	
Area of Application Submittal items Specification Ref. R.O.D Ref. No.		Manufacturer / Supplier Info ARMADA GROUP		Order Details Latest Ordering Date Estimated Arrival Date	
Attach all needed relevant product data (Descriptions, current test certificates, samples, guarantees and warranties)		Company Name ARMADA GROUP		Local Agent Address Country of Origin	
Attached Documents Manufacturer's Data & Instructions Local Supplier Data Catalogues & Brochures Terms & Conditions Others		Availability In Stock		Manufactured Upon Request	
Manufacturer's Data & Instructions Local Supplier Data Catalogues & Brochures Terms & Conditions Others		Availability In Stock		Manufactured Upon Request	
Engineers Comments Attachment Date: 30/04/2023		Engineers Comments Attachment Date: 30/04/2023		Engineers Comments Attachment Date: 30/04/2023	
DISTRIBUTION TO CONTRACTOR		DISTRIBUTION TO CONTRACTOR		DISTRIBUTION TO CONTRACTOR	
FROM: THE ENGINEER A. Approved As Submitted B. Approved - Except as Noted C. Revised/Resubmit D. Rejected		FROM: THE ENGINEER A. Approved As Submitted B. Approved - Except as Noted C. Revised/Resubmit D. Rejected		FROM: THE ENGINEER A. Approved As Submitted B. Approved - Except as Noted C. Revised/Resubmit D. Rejected	
PROJECT MANAGER The PM hereby returns this Submittal for Approval of Material/ System actioned by the Engineer. Approval by the Engineer shall not release the Contractor of its obligations and liabilities under the contract or constitute authorization of any change to contract document, and therefore, shall not imply any recognition whatsoever of additional time or cost to the contract.		PROJECT MANAGER The PM hereby returns this Submittal for Approval of Material/ System actioned by the Engineer. Approval by the Engineer shall not release the Contractor of its obligations and liabilities under the contract or constitute authorization of any change to contract document, and therefore, shall not imply any recognition whatsoever of additional time or cost to the contract.		PROJECT MANAGER The PM hereby returns this Submittal for Approval of Material/ System actioned by the Engineer. Approval by the Engineer shall not release the Contractor of its obligations and liabilities under the contract or constitute authorization of any change to contract document, and therefore, shall not imply any recognition whatsoever of additional time or cost to the contract.	
DISTRIBUTION TO Name: Signature: Date: 30/04/2023		DISTRIBUTION TO Name: Signature: Date: 30/04/2023		DISTRIBUTION TO Name: Signature: Date: 30/04/2023	

CMA

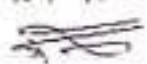


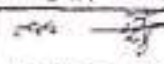
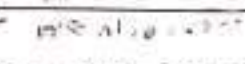
Only SINAG MUST-OWN SUBSIST
REV BY
Date 30/04/2023

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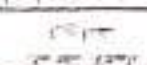
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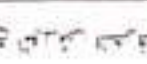
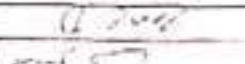
NRCHPLAN

Date: 11/05/2021 Signature: 		Date: 11/05/2021 Signature: 	
☐ Yes ☐ No		☐ Yes ☐ No	

Date: 11/05/2021 Signature: 	Date: 11/05/2021 Signature: 
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Item	Quantity	Unit	Value	Remarks
1	1	kg	1.00	1.00
2	1	kg	1.00	1.00
3	1	kg	1.00	1.00
4	1	kg	1.00	1.00
5	1	kg	1.00	1.00
6	1	kg	1.00	1.00
7	1	kg	1.00	1.00
8	1	kg	1.00	1.00
9	1	kg	1.00	1.00
10	1	kg	1.00	1.00
11	1	kg	1.00	1.00
12	1	kg	1.00	1.00
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97	1	kg	1.00	1.00
98	1	kg	1.00	1.00
99	1	kg	1.00	1.00
100	1	kg	1.00	1.00

Date: 11/05/2021 Signature: 	Date: 11/05/2021 Signature: 
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Date: 11/05/2021 Signature: 	Date: 11/05/2021 Signature: 
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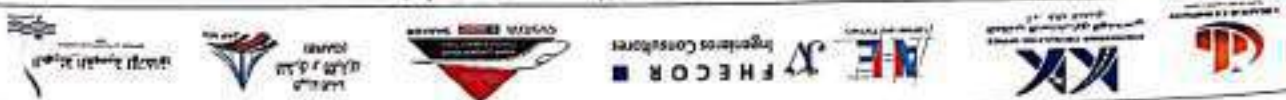
United Group



11/05/2021

ردیف	شرح خدمات	واحد	تعداد	واحد	تعداد	واحد	تعداد	واحد	تعداد
1	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	450	450	45	45	45	45	45
2	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	130	130	600	600	600	600	600
3	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	60	60	4,500	4,500	4,500	4,500	4,500
4	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	1,643	1,643	300	300	300	300	300
5	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	487	487	1,270	1,270	1,270	1,270	1,270
6	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	330	330	300	300	300	300	300
7	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	62	62	1,000	1,000	1,000	1,000	1,000
8	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	100	100	380	380	380	380	380
9	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	2,160	2,160	90	90	90	90	90
10	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	3,325	3,325	610	610	610	610	610
11	تعمیرات اساسی و تکمیلی ساختمان	مترمربع	1,590	1,590	320	320	320	320	320

تعمیرات اساسی و تکمیلی ساختمان (مترمربع) 307+450 مترمربع 305+470 مترمربع 305+470 مترمربع 305+470 مترمربع 305+470 مترمربع 305+470 مترمربع 305+470 مترمربع 305+470 مترمربع 305+470 مترمربع 305+470 مترمربع



2023-01-10 10:10:10

ردیف	شرح	مقدار	واحد	مبلغ	مجموع
13	سنگ مرمره سفید 20x30x60 سانتی متر	25	متر مربع	44,625	
14	سنگ مرمره سفید 20x30x60 سانتی متر	3,600	متر مربع	388,400	
15	سنگ مرمره سفید 20x30x60 سانتی متر	810	متر مربع	92,150	
16	سنگ مرمره سفید 20x30x60 سانتی متر	50	متر مربع	44,850	
17	سنگ مرمره سفید 20x30x60 سانتی متر	66	متر مربع	21,000	
18	سنگ مرمره سفید 20x30x60 سانتی متر	1,040	متر مربع	228,960	
19	سنگ مرمره سفید 20x30x60 سانتی متر	140	متر مربع	68,200	
20	سنگ مرمره سفید 20x30x60 سانتی متر	47	متر مربع	5,405	
21	سنگ مرمره سفید 20x30x60 سانتی متر	290	متر مربع	61,338	
22	سنگ مرمره سفید 20x30x60 سانتی متر	330	متر مربع	37,620	
23	سنگ مرمره سفید 20x30x60 سانتی متر	455	متر مربع	691,918	
24	سنگ مرمره سفید 20x30x60 سانتی متر	1,287	متر مربع	10,397,935	
25	سنگ مرمره سفید 20x30x60 سانتی متر	455	متر مربع	10,397,935	

b. Width: minimum 100 mm.

3.1.4 Installation

Comply with manufacturer's instructions, except where more stringent requirements or provisions are shown or specified by Engineer and except where project conditions require extra precautions or provisions to ensure performance of work.

HDPE sheets shall be placed in such a manner as to reduce field seaming to a minimum. Polyethylene sheets shall be rolled-out side by side and overlapped about 100-150 mm.

Where applied on fill or ground surface, the surfaces to receive vapour barrier shall be free of large particles, smooth and well completed and graded.

Construct pipe penetration through the waterproofing as indicated on shop drawings approved by the Engineer.

Place continuous vapour barrier over base course material to receive concrete slab. Extend to extremities of area. Turn up at perimeter walls (min. 15 cm).

Protect barrier against puncture and damage due to placement of concrete.

3.2 Protective Coating

3.2.1 General

This section covers the supply and application of protective coating for top areas of slab on grade covered with flooring and other parts of structure not covered with membrane as designated on drawings or directed by the Engineer.

3.2.2 Submittals

The Contractor shall submit, before commencement of work, complete technical data comprising:

1. Product data and manufacturer's original catalogues. For each type of product indicated including recommendations for method of application, primer, number of coats, coverage or thickness, and protection course.
2. Proof of suitability for application to concrete surfaces without harmful effect.
3. Experience records indicating application in similar projects.
4. Applicator qualifications.
5. Previous test reports.
6. Quality control plan.
7. Guarantee for protection of concrete surfaces.
8. Samples.

3.2.3 Materials

Cold-Applied Bitumen Emulsion Damp-Proofing

It shall be a bitumen latex base cold applied waterproofing and protective coating, dries to form a rubber-elastic membrane with high expansion and contraction properties.

Electric Express Train (High Speed Rail) from El Ain Sokhna to El Alamein

Arrangement works & Auxiliary Buildings

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company	
CU-(307+060)		Orange Company		(AHE & FHEOR) CONSULTANT	
Issued by Contractor	Name	Sign	Date	Designation	
	Eng: Hesham Magdy				
Contractor Reference		KP-ORANGE-SYS- CU-(307+060)-ST-MAR-			Revision 0000
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference					Revision
Received by ER	Eng: Ahmed Yehya		MAR		
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Kp XXX For Kilometer point only	
				CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

Description of Materials	Bitumen ARMADA WB (cold applied bitumen emulsion for waterproofing)		
Location to be Used	CU-(307+060)		
Sample only	Yes / No	Materials Type	Bitumen WB
Supplier Name	Armada	Data Sheet provided	Yes attached
Reference in BoQ		Specification	Structure Specification
Prequalification reference		Test Samples Results	Approved
Reference Photos	Yes attached / No	Other	
Comments by:		Comments by:	
Final approval after taking sample had supplied in the station and tested through the		- please provide the price for the material	

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor	Eng: Hesham Magdy				A
Designer					
GARB*					
Employers Representative				20-2-24	Awc

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

MATERIAL APPROVAL REQUEST



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CU-(307+060)		Orange Company		(A/E & FHEOR) CONSULTANT	
Issued by Contractor	Name	Sign	Date	Designation	
	Eng: Hesham Magdy	<i>[Signature]</i>			
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CODE-1 S1 to S21 Station Reference		CODE-1 D1 to D1 Depot Reference		CODE-1 KJ XXX For Kilometer point only	
				CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

Description of Materials	Polyethylene Sheet 400 micron from Alahram		
Location to be Used	CU-(307+060)		
Sample only	Yes	Materials Type	Polyethylene 400 micron
Supplier Name	Alahram	Data Sheet provided	Yes attached
Reference in BoQ		Specification	Structure Specification
Prequalification reference		Test Samples Results	Approved
Reference Photos	Yes attached / No	Other	
Comments by:		Comments by:	
- Final approval after taking sample and tested through third party.			

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor	Eng: Hesham Magdy	<i>[Signature]</i>			A
Designer					
GARB*					
Employers Representative	<i>[Signature]</i>	<i>[Signature]</i>		26-2 2024	Awc

* Alignment/Bridges: Culvert Only

A= Approved; AWC= Approved with Comments; R= Rejected

Bitumen Armada WB

(cold applied bitumen emulsion for waterproofing)

Properties and advantages:

- It is cold applied on horizontal surface.
- Has an excellent and strong adhesion on structural materials such as (concrete .metal. Wood .bricks ... etc.).
- When it dries it gives a strong shining black membrane.
- It is not affected by atmospheric factors.
- Resists attack of chlorides and sulphates likely to be present in ground water.
- Solvent free.
- Easy to apply without any heating thus economical in cost.



Coverage:

All given rates depend on substrate conditions:

- As waterproofing coat: 750-1000 g\m² (2 coat).
- As protective coat: 250 g\m² (1 coat).
- As a primer coat: 200-250 g\m² (1 coat).

Application procedure:

- Apply two coats at right angle, you can begin applying the second coat when the color has turned from brown to black, this takes approximately from 20 to 30 min, depending on the nature of the treated surface.
- After use check that drum or pail should be closed well.



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ARMADA
For Trade and Construction



Technical properties:

S. Gat 25 °C	1.058 ± 10%
Solid content	35% ± 5%
Min drying temp.	2°C up to 40°C
Bone dry	Approx. 2 hours
Complete hardening	App 2-3 days
Shelf life at 20 °C	12 months

Specification:

- Complies with ASTM D 1227 (type III class I) and DIN 18195 part 2.

Packing:

- Drums: 180 Kg.
- Plastic pail: 10 - 15 kg.

Health and safety:

- Like all chemical products, avoid contact of ARMADA WB with eyes, mouth and skin.
- If accidental skin contact occurs, remove immediately with clear water and seek medical treatment.

Technical properties:

S. Gat 25 °C	1.058 ± 10%
Solid content	35% ± 5%
Min drying temp.	2°C Up to 60°C
Bone dry	Approx. 2 hours
Complete hardening	App 2-3 days
Shelf life at 20 °C	12 months

Specification:

- Complies with ASTM D 1227 Type III Class I and DIN 18195 part 2.

Packing:

- Drums: 180 Kg.
- Plastic pail: 10 - 15 kg

Health and safety:

- Like all chemical products, avoid contact of ARMADA WB with eyes, mouth and skin.
- If accidental skin contact occurs, remove immediately with clear water and seek medical treatment.

Technical properties:

S. Gat 25 °C	1.058 ± 10%
Solid content	35% ± 5%
Min drying temp.	2 °C up to 60 °C
Bone dry	Approx. 2 hours
Complete hardening	App 2-3 days
Shelf life at 20 °C	12 months

Specification:

- Complies with ASTM D 1227 type II class I and DIN 18195 part 2.

Packing:

- Drums: 180 Kg.
- Plastic pall: 10 - 15 kg.

Health and safety:

- Like all chemical products, avoid contact of ARMADA WB with eyes, mouth and skin.
- If accidental skin contact occurs, remove immediately with clear water and seek medical treatment.

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(د/ هشام مصطفى محمد)
 مدير عام
 ١٧



١- اللون	سماوي أبيض أسود
٢- المحتوى المائي بالوزن (%)	٣٩.٩
٣- مقاومة الماء (بم ٢٤ ساعة)	لم يحدث تلف في العينات المغمورة في الماء في المظهر بعد فحص مكعب الاختبار المغطى بالبوليمر المائي لمدة ٢٤ ساعة
٤- مقاومة الماء	لم يحدث تلف في العينات المغمورة في الماء في المظهر بعد فحص مكعب الاختبار المغطى بالبوليمر المائي لمدة ٢٤ ساعة

تم إجراء الاختبارات على العينات المغطاة بـ "مستحلب بولي ميني" وكانت نتائج الاختبارات كالتالي :-

١- اللون	سماوي أبيض أسود
٢- المحتوى المائي بالوزن (%)	٣٩.٩
٣- مقاومة الماء (بم ٢٤ ساعة)	لم يحدث تلف في العينات المغمورة في الماء في المظهر بعد فحص مكعب الاختبار المغطى بالبوليمر المائي لمدة ٢٤ ساعة
٤- مقاومة الماء	لم يحدث تلف في العينات المغمورة في الماء في المظهر بعد فحص مكعب الاختبار المغطى بالبوليمر المائي لمدة ٢٤ ساعة

EGSC2/3-1

تقرير نتائج اختبار عينة "مستحلب بولي ميني"

مركز ضبط جودة المنتجات المصرية والمنشآت
 ١٧٩١



Egyptian Organization for
 Standardization & Quality (EOS)

الهيئة المصرية العامة
 للمواصفات والجودة