



دارة التصميم الهندسي

Project **AL KHARAEJ-RES 20, RESIDENTIAL TOWER @ LUSAIL**

**MATERIAL SUBMITTAL**

Submittal No. **ALSEAL-AK-MS-ST-0008** Rev **01**  New submittal  Re-submittal Date **16 FEB 2016**

Material Description **ROOF WATERPROOFING - 'BITUMODE PRIMER S.B' & 'BITUMODE - P'**  
**BITUMODE PRIMER - SOLVENT BASE BITUMEN PRIMER**  
**BITUMODE - P - 4mm APP-180 MEMBRANE**

At Seal Cont. & Trdg. Co.  
**AL KHARAEJ TOWER PROJECT**  
Date: **25/02/16** Plot No: **RES/20**

Country of Origin **QATAR** Specified  Alternative  Architecture  Structure  Electrical  Mechanical  Other Sign.

Manufacturer **M/s BITUMODE QATAR WATERPROOFING FACTORY** Local Supplier/Agent **M/s BITUMODE QATAR WATERPROOFING FACTORY** Name **DOHA-QATAR** **DOHA-QATAR** Details For ROOF Water Proofing System Products: - **i) BITUMODE PRIMER S.B - (Completed) 281 M D41** **ii) BITUMODE - P AN APP MODIFIED BITUMINOUS MEMBRANE (4MM THK, REINFORCED WITH A CORE OF NON WOVEN POLYSTER MAT OF NOMINAL 200GSM)** Includes: **COMPLIANCE STATEMENT PRODUCT SHEETS, WARRANTY** Applicable to ROOF Areas includes Upper & Lower Roof slabs

Table with columns: ARCH, CIVIL, SAFETY, CONSULTANT, MANAGEMENT, OTHERS, FILE. Includes handwritten checkmarks and a signature.

Drawings ref.  BS  Specs

Attached Data Sheet  Sample  Catalogue  Profile  Calculations  Test Results  Other

Name **Eng. PRAVEEN MATHEW** QA/QC Signature **Eng. SHERIF SAMEH** Project Manager Signature

Received by Consultant Name **Signature** Date **17 FEB 2016**

Stamp: **RECEIVED** 17 FEB 2016 By: [Signature]

Consultant comments: **Material to be used as per manufacturer recommendations & work to be carried out as per d.c.s.**

Approved  Approved With Comments  More Information Required  Rejected  Commented by **QA/QC** Project Manager **Signature** Date **21/2/16**

Received Back By the contractor

Stamp: **AL SEAL CONTRACTING & TRADING Co. FOXHILL RESIDENCE PROJECT** 24 FEB 2016 Material Submittal Form DARA/CD/04 04:30 pm **RECEIVED** By: [Signature]



Project	<b>AL KHARAEJ-RES 20, RESIDENTIAL TOWER @ LUS.</b>						
<b>MATERIAL SUBMITTAL</b>							
Submittal No.	ALSEAL-AK-MS-ST-0008	Rev	01		New submittal	Date	16 FEB 2016
				X	Re-submittal		
Material Description	ROOF WATERPROOFING – 'BITUMODE PRIMER S.B' & 'BITUMODE – P' BITUMODE PRIMER - SOLVENT BASE BITUMEN PRIMER BITUMODE – P – 4mm APP-180 MEMBRANE						
Country of Origin	QATAR	Specified	Alternative	Architecture	Structure	Electrical	Mechanical
		X			X		
Name	Manufacturer	Local Supplier/Agent		Details			
	M/s BITUMODE QATAR WATERPROOFING FACTORY	M/s BITUMODE QATAR WATERPROOFING FACTORY		For ROOF Water Proofing System - Products: – i) BITUMODE PRIMER S.B – Complied ASTM D41 ii) BITUMODE – P AN APP MODIFIED BITUMINOUS MEMBRANE (4MM THK, REINFORCED WTH A CORE OF NON WOVEN POLYSTER MAT OF NOMINAL 180gm/M <sup>2</sup> ) Includes: COMPLIANCE STATEMENT PRODUCT SHEETS, WARRANTY			
Tel	+974 - 44442717	+974 - 44442717		Applicable to ROOF Areas includes Upper & Lower Roof slabs			
Fax	+974 - 44442718	+974 - 44442718					
POBox	39199	39199					
Email:	info@bitumodeqatar.com	info@bitumodeqatar.com					
BOQ		BS		Specs			
Drawings ref.							
Attached	Data Sheet	Sample	Catalogue	Profile	Calculations	Test Results	Other
	X	X	X				X
Name	QA/QC Eng. PRAVEEN MATHEW			Project Manager Eng. SHERIF SAMEH			
Signature							
Received by Consultant				Name			
Signature				Signature			
Date				Date 17 FEB 2016			
Consultant comments:				RECEIVED			
- Material to be used as per manufacturer recommendations & work to be carried out as per d.c.s.							
<input checked="" type="checkbox"/>	Approved	<input checked="" type="checkbox"/>	Approved With Comments	<input checked="" type="checkbox"/>	More Information Required	<input checked="" type="checkbox"/>	Rejected
Commented by	Name		Signature		Date		
QA/QC					21/2/16		
Project Manager							
Received Back By the contractor							

AL SEAL CONTRACTING & TRADING Co.  
FOXHILL RESIDENCE PROJECT  
24 FEB 2016  
Material Submittal For DARS  
04:30 pm  
RECEIVED  
By: .....

17/02/16

21/02/16



DARA ENGINEERING CONSULTANTS  
مدارة التصميم الهندسي

Project **AL KHARAEJ-RES 20, RESIDENTIAL TOWER @ LUSAIL**

## MATERIAL SUBMITTAL COMMENTS

Submittal No.	ALSEAL-AK-MS-ST-0008	Rev	01		New submittal	Date	16 FEB 2016
				x	Re-submittal		

Material Description	ROOF WATERPROOFING – 'BITUMODE PRIMER S.B' & 'BITUMODE – P'
	BITUMODE PRIMER - SOLVENT BASE BITUMEN PRIMER
	BITUMODE – P – 4mm APP-180 MEMBRANE

### Comments

Large empty area for handwritten comments, with a blue diagonal line drawn across it.

Commented by			
QA/QC			
Project Manager			

Received Back By the contractor			
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# Bitumode Qatar Waterproofing Factory

## مصنع بيتومود قطر للمواد العازلة

### To Whom It May Concern

**Project:** AL KHARAEJ (RES./20)

#### BITUMODE QATAR –ROOF WATERPROOFING

DESCRIPTION	QCS 2010 Section 14:Part 2	Product Specification	Remarks
THICKNESS	4MM APP THK MEMBRANE	BITUMODE – P 180 (APP membrane) 4mm	Comply
TENSILE STRENGTH	EN 12311-1 Long : 750 N/5cm Wide : 600 N/5cm  BS 2782 7.5N/MM	EN 12311-1 Long : 750 N/5cm Wide : 600 N/5cm  BS 2782 7.5N/MM	Comply
ELONGATION	BS 2782 40%	EN 12311-1 Long : 45% Wide : 45%	Comply
TEAR RESISTANCE	ASTM D-5147 Long : 550 N Wide : 450 N ASTM D1004 100N	ASTM D-5147 Long : 550 N Wide : 450 N ASTM D1004 100N	Comply
MOISTURE VAPOUR PERMEABILITY	BS 2782 8.5g/m2/day	BS 2782 8.5g/m2/day	Comply

Eng. Hassan Allam

  
General Manager



ص.ب: 39199 الدوحة ، قطر

00974 4444 2717 : تليفون

00974 4444 2818 : فاكس

P.O. Box: 39199 Doha, Qatar

Tel. : 00974 4444 2717

Fax : 00974 4444 2818

بريد الكتروني : info@bitumodeqatar.com

Project **AL KHARAEJ-RES 20, RESIDENTIAL TOWER @ LUSAIL**

**MATERIAL SUBMITTAL**

Submittal No. **ALSEAL-AK-MS-ST-0008 Rev 00** X New submittal Date **14 JAN 2016**  
 Re-submittal

Material Description **ROOF WATERPROOFING - 'BITUMODE PRIMER S.B' & 'BITUMODE - P'**  
**BITUMODE PRIMER - SOLVENT BASE BITUMEN PRIMER**  
**BITUMODE - P - 4mm APP-180 MEMBRANE**

Country of Origin **QATAR** Specified  Alternative  Architectural  Structure  Electrical  Mechanical  Other

Manufacturer		Local Supplier/Agent	Details
<b>M/s BITUMODE QATAR WATERPROOFING FACTORY</b>		<b>M/s BITUMODE QATAR WATERPROOFING FACTORY</b>	For ROOF Water Proofing System - <b>Products: -</b> i) <b>BITUMODE PRIMER S.B - Complied ASTM D41</b> ii) <b>BITUMODE - P</b> <b>AN APP MODIFIED BITUMINOUS MEMBRANE</b> (4MM THK, REINFORCED WITH A CORE OF NON WOVEN POLYESTER MAT OF NOMINAL 180gm/M <sup>2</sup> ) <b>Includes:</b> Technical Data Sheet & Catalogue Company Profile, Approvals, Test Certificates, Method of Statement, MSDS, ISO Certificates, Warranty <b>Applicable to ROOF Areas includes Upper &amp; Lower Roof slabs as per project specifications</b>
<b>DOHA-QATAR</b>		<b>DOHA-QATAR</b>	
Tel: <b>+974 - 44442717</b>		<b>+974 - 44442717</b>	
Fax: <b>+974 - 44442718</b>		<b>+974 - 44442718</b>	
P.O.Box: <b>39199</b>		<b>39199</b>	
Email: <b>info@bitumodeqatar.com</b>		<b>info@bitumodeqatar.com</b>	
BOQ		BS	Specs

Drawings ref		Attached	Data Sheet	Sample	Catalogue	Profile	Calculations	Test Results	Other	
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Name: <b>Eng. PRAVEEN MATHEW</b>		Name: <b>Eng. SHERIF SAMEH</b>						Project Manager		
Signature:		Signature:						Signature		

Received by Consultant  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Consultant comments: **RECEIVED**

*To strictly comply with the manufacturer/supplier instructions & systems of application as required & materials shall be used as per project specifications & Compliance Statement with specification is required*

<input checked="" type="checkbox"/> Approved	<input checked="" type="checkbox"/> Approved With Comments	<input checked="" type="checkbox"/> More Information Required	<input checked="" type="checkbox"/> Rejected
Name: _____		Signature: _____ Date: _____	
Commented by:		Date: <b>17/1/16</b>	
QA/QC		Project Manager	

Received Back By the contractor

**AL SEAL CONTRACTING & TRADING CO.**  
**AL KHARAEJ TOWER PROJECT**  
**RECEIVED**  
 04.30



# BITUMODE - P

**APP MODIFIED BITUMEN PLASTOMERIC WATERPROOFING  
MEMBRANE REINFORCED WITH NON-WOVEN POLYESTER**

## What is Bitumode?

Produced by Bitumode Qatar Waterproofing Factory Bitumode is a line of polymer-modified bitumen waterproofing membrane of the highest quality. Bitumode is modified by APP and APAQ, thus guaranteeing superior performance under various conditions.

**BITUMODE - P** is reinforced with **100 non-woven polyester** which provides high mechanical properties and dimensional stability.

## Uses

**BITUMODE - P APP 180** is a general purpose membrane, can be applied virtually anywhere where torch applied modified bitumen membranes subject to light to moderate mechanical stresses are specified and good cold flexibility features are required. **BITUMODE - P APP 200** and **APP 250** are suitable for heavy duty applications such as bridge decks and areas subject to heavy movements and stresses.

**BITUMODE - P can be applied in:**

- Single layer roofing system for advanced use
- Double layer system for basements
- Double layer roofing system combined with **BITUMODE-G** fiberglass reinforced
- Toilets and wet area inside buildings
- Retaining walls
- Under raft foundations

**BITUMODE - P** with Mineral Slated Finish is recommended for exposed roofing system (Unprotected) for Non-accessible roofs or roofs subject to low traffic conditions.

## Advantages

**BITUMODE - P** has been designed with special regard to providing clients with an excellent and versatile product.

Advantages of **BITUMODE - P** include

- Easy to apply (by torch)
- Highly mechanical properties
- Absolute impermeability to water
- Flexibility at low temperature
- Excellent high temperature performance
- Excellent adhesion on any surface
- High dimensional stability
- Environmentally friendly
- Resistant to soil chemicals and salts up to certain limits

## Quality Control

Bitumode Qatar Waterproofing Factory is ISO 9001 certified. It applies a stringent quality control system utilizing its in-house laboratory. Occasional samples are analyzed by independent laboratories to ensure continued adherence to the highest standards (ASTM, EN, etc.).

Each roll of Bitumode is individually coded with a label containing all necessary information about the roll. This is intended to ensure traceability in accordance with ISO control standards.

## Product Range

Standard thicknesses available include 3mm, 4mm and 5mm. Some types could be available by weight, such as 3kg/m<sup>2</sup>, 4kg/m<sup>2</sup>, and 5kg/m<sup>2</sup>. Bottom surface finish is normally Polyethylene Film (PE).

Upper surface finish choices include:

- Polyethylene Film (PE)
- Fine Sand (S)
- Mineral Slated Grey (GY)
- Mineral Slated Green (GRN)
- Mineral Slated White (WT)
- Mineral Slated Red (RD)

The nominal length of each roll is 10 meters and the nominal width is one meter.

Special specifications can be designed based on client's needs.



**BITUMODE - P NON-WOVEN POLYESTER**

MEMBER



# BITUMODE - P

## APP MODIFIED BITUMEN PLASTOMERIC WATERPROOFING MEMBRANE REINFORCED WITH NON-WOVEN POLYESTER

TECHNICAL DATA	UNIT	RESULT			TOLER.	TEST METHOD	الخواص الفنية	
Product	Roll	APP-180	APP-200	APP-250				
Roll Length	m	40	40	40	1%	EN 1848-1	طول	
Roll Width	m	1	1	1	1%	EN 1848-1	عرض	
Thickness	mm	4	4	4	( ± 0.2 )	EN 1849-1	السماكة للتطبيق السطح بولي إيثيلين	
Cold Flexibility	%	0 to -5				EN 1109	مرونة عند درجات حرارة منخفضة	
Heat Resistance	%	120				EN 1110	ثبات عند درجات الحرارة العالية	
Water impermeability at 100 K Pa		Absolutely impermeable				EN 1928:2000	عدم نفاذية المياه لمدة 72 ساعة	
Reinforcement Type		NONWOVEN-POLYESTER					التعزيز	
Nominal weight	g/m <sup>2</sup>	180	200	250			الوزن	
Tensile strength	Long Wide	N/5cm N/5cm	650 700	850 700	1050 750	-20%	EN 12311-1	قوة شد عرضي
Elongation at break	Long Wide	% %	45 45	45 45	45 45	-15	EN 12311-1	الاستطالة عرضي
Tear Resistance	Long Wide	N N	550 450	650 550	750 600	-10%	ASTM D 5147	مقاومة تمزق عرضي
Joint tensile strength	Long Wide	N N	750 600	850 700	1050 750	-20%	EN 12317-1	قوة شد عرضي
Dimensional stability	Long Wide	% %	± 0.2 ± 0.2	± 0.3 ± 0.3	± 0.2 ± 0.2		EN 1107-1	ثبات الأبعاد عرضي
Static puncture resistance	kg	10kg	10kg	15kg		EN 12730:2001	مقاومة الإبر في الساكنة	
Resistance to impact	mm	700	800	900	-15%	EN 12691	مقاومة الإبر في الساكنة	

### NOTES

- Above results are based on 4mm membrane.
- Products are available in 3, 4, and 5 mm for PE finish and 3.4 mm for slated finish.
- Due to constant product improvements, BITUMODE QATAR WATERPROOFING FACTORY reserves the right to change above values without prior notice.

### STORAGE

- Rolls should be stored vertically, by pallets in a cool and dry place and subject to direct sunlight.

### APPLICATION INSTRUCTIONS

- Before the membrane is applied, the surface to be waterproofed should be fully loaded to the substrate depending on system requirements.
- When applying membrane, the first step is to remove all loose material and debris from the surface.
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### Bitumode Qatar Waterproofing Factory

New Industrial Zone, Doha, Qatar  
Tel: (+974) 44 44 2717  
Fax: (+974) 44 44 2818  
P.O. Box 39199, Doha, Qatar  
Email: info@bitumodeqatar.com  
Website: www.bitumodeqatar.com

MEMBER



NATIONAL  
ROOFING  
CONTRACTORS  
ASSOCIATION



INTERNATIONAL  
ASSOCIATION  
OF BUILDING  
ENVELOPE  
CONTRACTORS



INTERNATIONAL  
ASSOCIATION  
OF WATERPROOFING  
CONTRACTORS



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OF ROOFING  
CONTRACTORS





# BITUMODE PRIMER S.B.

## Solvent Base Bitumen Primer and Coating

### Description :

Bitumode Primer S.B. is a solvent base bituminous protective coating for horizontal and vertical application on concrete, mortar, cement blocks masonry and metal surface

Bitumode Primer S.B. formulated using special bitumen grade type and other additives to form a tough seamless coating after curing on exposure to atmosphere

### Properties:

- Cold applied single system
- Easy to apply by brush roller or spray
- Penetrate deep into the porous surface and seals.
- Provide excellent bond strength against wide range of substrate

### Applicable standard

**Bitumode Primer S.B.** comply with the American standard ASTM D-41

### Application Area

- As a primer coat on porous substrate prior to insulation of bitumen base coat
- As a primer for Bitumode waterproofing membrane to build up waterproofing system
- As a damp proof coating

### Physical properties

Form	Viscous liquid
Color	Dark brown
Bitumen Content	40 ± 5 % by weight
Specific gravity	0,92±0.015@ 25 °C
Drying time	4-6 hrs @ 25 °C
Service temperature	-5 °C to + 80 °C



**BITUMODE PRIMER S.B.**





# Bitumode Qatar Waterproofing Factory

مصنع بيتومود قطر للمواد العازلة

## CERTIFICATE OF WARRANTY

### To WHOM IT MAY CONCERN

**BITUMODE QATAR WATERPROOFING FACTORY** Located in new industrial area ,  
Green Area , P.O.box.39199

**Manufacturer of APP & SBS Bitumen modified waterproofing membranes and  
Bituminous Protection Boards**

**against all manufacturing defects for the proposed waterproofing system**

**Providing a letter of warantee for 10 years on our product range**

This guarantee is subject to but not limited to the following conditions:

- Waterproofing system will be installed by the a/m recommended and approved applicator
- Membrane should be stored vertically in well covered store not exposed to direct sunlight
- Using of the recommended primer before installation.
- Surface to be smooth and leveled
- Protection of the waterproofing layer direct after installation
- Any penetration or piercing to the membrane is not allowed
- Overheating due to torching the membrane is not allowed
- Any changes to the waterproofing area after installation of the membrane will render this certificate & will void.
- Any consequential damages are expressly excluded
- Maximum liability is the cost of the supplied membranes to the project as per the original invoices
- Owner must notify our company of any defect within seven calendar days of delivery.
- Out company must be allowed to inspect the jobsite and be allowed full access to the site.
- The company has the right to choose the laboratory to be used for testing and it must approve the test method as appropriate for the issue at hand. Tests must be conducted in the presence of a company representative.
- This certificate is issued without any obligation towards our company concerning the application.

General Manager

Hassan Alim

P. O. Box: 39199 Doha, Qatar

Tel. : 00974 4444 2717

Fax : 00974 4444 2818

ص.ب: 39199 الدوحة . قطر

00974 4444 2717 : تليفون

00974 4444 2818 : فاكس

Email : [info@bitumodeqatar.com](mailto:info@bitumodeqatar.com)

Web : [www.bitumodeqatar.com](http://www.bitumodeqatar.com)

[info@bitumodeqatar.com](mailto:info@bitumodeqatar.com) : بريد الكتروني

[www.bitumodeqatar.com](http://www.bitumodeqatar.com) : موقع الكتروني