

Submitted to:

Job Name:

Submitted by: POWER PROOF TRADING AND CONTRACTING

Date:

This Submittal Form is provided to assist you in specifying and selecting the proper products. Basic product descriptions and performance data are included. For further information or technical assistance, contact Power Proof representative.

Power Proof Trading & Contracting , P.O.Box 7643 Doha , Qatar Hot line : 70009311 www.powerproofqatar.com email: info@powerproofqatar.com Phone : (+974) 4488 32 66 Fax : (+974) 4488 32 66

Index

- Method Statement
- Material Data Sheets
- Material Safety Data Sheets
- Material Test Reports
- Material Approvals

Part 1.

METHODE STATEMENT

METHOD STATEMENT

Power-Protect W-70

Water-based Polyurethane Gel Injection Resin

1-PURPOSE

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 To provide guidance on use of injection to repair cracks in concrete.

2- DESCRIPTION

This method can be used to repair cracks as narrow as 0.1 mm. The method generally consists of drilling holes at close intervals along the cracks, in some cases installing Packers, and injecting the concrete under pressure.

3-EQUIPMENT, TOOLS, AND PERSONNEL REQUIREMENTS

a concrete drill, injection machine (we recommend the **SMART-X** or **COMPACT 6** injection machine), a means of cleaning holes and cracks, and normal hand tools are required. One man can repair cracks using this method, but a two- or three-man operation is more efficient. concrete injection requires personnel with a high degree of skill for satisfactory execution.

4-PREPARATION

1- Clean the cracks. The first step is to clean cracks that have been contaminated. Oil, grease, dirt, or fine particles of concrete prevent epoxy penetration and bonding.

2- contamination should be removed by flushing with water or some other specially effective solvent. The solvent is then blown out using compressed air or adequate time is provided for air-drying.

5- DRILLING & FIXING

1-Use a high quality rotary hammer drill to make injection holes with a varied distance from 15-50 cm to each other, according to the width of crack. The drilling angle should be approximately 45 degrees or less to concrete surface and intersecting the crack, at a distance of ½ the depth of the concrete element from the crack. Then clean all the holes from dust using air blower .

2-Install injection packers into drilled holes ensuring that top of the sleeve is just below the surface of the concrete to secure sealing of the injector.

METHOD STATEMENT

Power-Protect W-70

Water-based Polyurethane Gel Injection Resin

6-INJECTION

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1- Power-Protect W-70 is to be applied using the Injection machine (Ex. Smart X).

2-Make sure that the delivery line and all the fitting are connected tightly and in new condition at all time. Also ensure that no contamination has entered the delivery system.

3-Start the Injection machine with low speed to start the pumping process and increase gradually.

4-Once the desired working pressure is obtained set the switch of the machine so that this pressure will both be exceeded. In a regular injection the injection pressure will be well below the 4 bar mark.

5-Continue until the crack is filled completely and resin can be seen emerging from the crack surface.

6-Then start the process with the next packer until all the packers are done.

7-Allow curing overnight and removing the packers and close the holes with special epoxy mortar that can be applied by trowel, spatula or knife.

8-If the water is seen at adjacent place 7 days later, the procedure should be repeated until the whole structure is dried.

9- Power-Protect W-70 is used to Seal the crack permanently after injected by Power-Protect O-95.

10- Subsequent to injection of Power-Protect O-95, the same packers shall be used for injecting Power-Protect W-70 to get a permanent seal.

11- Remove the packers and make good any holes or voids with any mortar and allow to cure.

METHOD STATEMENT

Power-Protect W-70

Water-based Polyurethane Gel Injection Resin

7-CLEANING

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1-Resins must be cleaned up immediately before it sets using any thinner.

2-Packers must be removed within 24 - 48 hours and patched with appropriate epoxy mortar .

3-Electrical grinder can be used to remove excess cured resin that flowed out the cracks.

8- ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of any crack repair activities involving potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational Health and environmental quality should be carefully followed. In instances where the effects of a chemical substance on occupational health or environmental quality are unknown, chemical substances should be treated as potentially hazardous and toxic materials.

Part 2.

MATERIAL DATASHEET

Power-Protect W-70

Water-based Polyurethane Gel Injection Resin

Description

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Single component, low viscosity, high flexible hydrophilic polyurethane gel injection resin

Applications

It can stop the water leaking in the building very fast, widely used in Subway Station, Tunnel, Culvert, Foundation Improvement, Soil Settlement, Reservoir, Port Project, Top Slab, Cracks Construction Join, Shrinkage Crack, Basement hairline crack etc.

Advantages

- Low viscosity
- Adjustable set time-as fast as 20 seconds
- Water impermeable
- Injected as a single component, direct use without to mix extra catalyst
- Used for injecting cracks widths from 0.2 10 mm.
- Suitable for hairline Cracks .

Test report for Hr	ophilic polyurethane injection re	esin
ltem	Standard Index	Test Results
Density (g/cm ³ 25°C±0.5°C)	≥1.00	1.07
Viscidity (Mpa.S 25°C±0.5°C)	≤1.0×10 ³	300 to 600
Gel Time /s	≤150	10 to 130
Foaming Capability / %	≥350	350
Non-Volatile Content/ %	≥75	80
Flash Point °C	≥124	160.6
The ignite Temperature °C		402

Usage

Hairline cracks are defined as cracks less than 1.5mm. These cracks can be the most difficult to seal as it is tough to force a thick resin into a tight crack. This situation are suitable to use "Power-Protect W-70". Joints are easy to seal if you know the proper procedures. "Power-Protect W-70", while great in tight cracks, works as well as sealing wide cracks

Consumption

Has to be estimated by the engineer or operator and depends on the size of the cracks and voids, which need injecting and on the expansion rate of the chosen resin.

Cleaning

- Resins must be cleaned up immediately before it sets.
- Packers must be removed within 24 48 hours and patched with appropriate epoxy mortar .
- Electrical grinder can be used to remove excess cured resin that flowed out the cracks.

Packaging

Power-Protect W-70 is available in 10 KGS Special Iron Pails

Power-Protect W-70

Water-based Polyurethane Gel Injection Resin

Preparation

If water leakage is found in the water tank or retaining wall, conduct a visual survey to locate the apparent source of the leakage. If the concrete structure is plaster all plaster should be removed from the affected area to expose the concrete below. There after mark the crack. through which the water leakage is observed.

Drilling

Use a high quality rotary hammer drill to make injection holes with a varied distance from 15-50 cm to each other, according to the width of crack.

The drilling angle should be approximately 45 degrees or less to concrete surface and intersecting the crack, at a distance of ½ the depth of the concrete element from the crack. Clean all the holes from dust using air pump.

Fixing

Install injection packers into drilled holes ensuring that top of the sleeve is just below the surface of the concrete to secure sealing of the injector.

Application

- All it have to be done after closing the cracks with Power-Protect O-95 foaming resin.
- Power-Protect W70 is to be applied using the Injection machine (Ex. Smart X).
- Make sure that the delivery line and all the fitting are connected tightly and in new condition at all time. Also ensure that no contamination has entered the delivery system.
- Start the Injection machine with low speed to start the pumping process and increase gradually.

Application(Continue..)

Once the desired working pressure is obtained set the switch of the machine so that this pressure will both be exceeded. In a regular injection the injection pressure will be well below the 400 bar mark. -----

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Continue until the crack is filled completely and resin can be seen emerging from the crack surface.

- Then start the process with the next packer until all the packers are done.
- Allow curing overnight and removing the packers and close the holes with special epoxy mortar that can be applied by trowel, spatula or knife.
- If the water is seen at adjacent place 7 days later, the procedure should be repeated until the whole structure is dried.

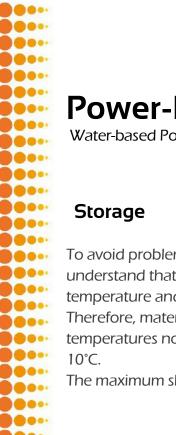
Health & Safety

Power-Protect W70 is classified as harmful. Power-Protect W70 is classified as irritant. In case of spills and accidents, refer to the Material Safety Data Sheet of the products or when in doubt contact the Manufacturer . Always wear protective clothing, gloves and protective goggles when handling chemical products.

For full information, consult the relevant Material Health and Safety Data Sheet.

Appearance

Transparent maple liquid



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Power-Protect W-70

Water-based Polyurethane Gel Injection Resin

To avoid problems, it is very important to understand that Power-Protect W-70 is both
temperature and moisture sensitive.
Therefore, materials should be stored in an area with
temperatures not exceeding 30°C or not lower than 10°C.

The maximum shelf-life is one year.

Equipment

- SMART-X Integrated Injection Machine
- Compact 6 powerful Injection Machine
- SP-5 single component injection machine
- Set of Injection Packers



Important Note:

The technical information and application advice in this publication is based on the present state of our best scientific and practical knowledge. As the nature of the information herein is general, no assumption can be made as to the product's suitability for a particular use or application, and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by State legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use. Field service, where provided, does not constitute supervisory responsibility.

www.powerproofqatar.com/W70









POWER PROOF TRADING & CONTRACTING Telephone :+974- 44 88 32 66 Hot Line : +974- 70 00 93 11 Email : info@powerproofqatar.com

Part 3.

MATERIAL SAFETY DATASHEET

POWER-PROTECT Safety Data Sheet

Part I Chemical Name

chemical name: Polyurethane Injection Resin

Company Name: POWER PROOF TRADING & CONTRACTING Tel: +974 44 88 32 66 Fax: +974 44 88 32 66 Emergency Phone: +974 7000 9311

Part II Composition / Ingredients:

Chemical Name	CAS Number	EINECS formula	ingredients
Polyurethane Injection Resin	9009-54-5		100%

Part III Overview of hazards

Potential health hazards

Eyes: May cause eye irritation, may cause swelling or pain.

Skin: May cause skin irritation, may be harmful through skin absorption, repeated skin contact may cause skin dry and chapped skin.

Ingestion: May cause gastrointestinal irritation, symptoms may be nausea, vomiting, diarrhea. May be harmful if swallowed.

Inhalation: Inhalation of vapors may cause respiratory irritation, inhalation of high concentrations of vapor may cause central nervous system response, nausea, headache. Inhalation may be harmful.

Part IV Aid Measures

Eye contact: Immediately flush with plenty of water for at least 15 minutes, lift upper and lower eyelids from time to time, if the stimulus appear, immediately seek medical attention.

Skin contact: immediately wash with soap and plenty of water, remove contaminated clothing and shoes, if stimulated continuous, seek medical care.

Ingestion: Do not induce vomiting, do not put anything into an unconscious person's mouth. Rinse mouth with water, seek medical care immediately.

Inhalation: Immediately move to fresh air from the exposure, if not breathing give artificial respiration, if breathing difficult give oxygen; if any symptoms, seek medical advice immediately.

Part V Fire-fighting measures

In general: in any case the fire, wear self-suction pressure to meet the requirements of the ventilator, MSHA / NIOSH (or equivalent standard), with full protection. In fire conditions due to thermal decomposition or combustion may produce irritation or toxic gases.

POWER-PROTECT Safety Data Sheet

Extinguishing Media: Use water spray to keep containers cool with water spray, carbon dioxide, dry powder or appropriate foam.

Part VI Accidental Emergency

General information: select the appropriate personal protective equipment.

Disclosure: to absorb with inert material (such as vermiculite, sand or soil) and then placed in an appropriate waste container. Move away all sources of ignition, ventilation. Do not let the material come into the drainage system.

Part VII Handling and Storage

Operating: to maintain proper air circulation, avoid inhalation of dust, vapor, mist or gas. Avoid contact with eyes, skin and clothing, avoid ingestion and inhalation. Keep away from heat and fire. Avoid prolonged exposure.

Storage: Store in a dry, ventilated place. Keep container seal. Keep away from fire.

Part VIII Exposure controls / personal protection

Engineering Control: Choose the right ventilation, use and storage of the material should be equipped with eyewash and shower equipment, using general ventilation to ensure that the local concentration of air within a limited lever.

Eye protection: Wear protective chemical safety glasses.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin contact.

Part IX Physical and chemical properties Physical State: Liquid

Color: light brown Odor: pungent odor PH value: 6.5

Saturated vapor pressure: Not available Vapor Density: Not available

Viscosity: 200 mpa.s Boiling Point: Not available Melting Point: Not available Flash point:> 100 °C

Explosion Limits: Lower: Not available Explosion

limits: upper limit: Not available Decomposition

Temperature: Not available

Partition coefficient (octanol / water): Not available Density: 1.060g/m3

Part X Stability and reactivity

Stability: Under normal temperature and pressure stability. Conditions to avoid: incompatible materials, fire, overheating. Incompatible materials: strong oxidizers, acids, alkalis.

POWER-PROTECT Safety Data Sheet

Hazardous decomposition products: irritation or toxic smoke or gases, carbon dioxide, carbon monoxide.

HAZARDOUS POLYMERIZATION: None.

Part XI Toxicological information RTECS: CAS # 9009-54-5: TR7875000 LD50/LC50: Not available

Carcinogenicity: Polyurethane Injection Resin - have not been adequately studied.

Other: In the context of our knowledge, the substance of the physical, chemical and toxicological properties have not been adequately studied.

Part XII ECOLOGICAL INFORMATION

Ecological toxicity: Not available Other: Do not go directly to the drainage system.

Part XIII DISPOSAL

Waste treatment Disposal in state and local regulations.

Part XIV TRANSPORT INFORMATION

	ΙΑΤΑ	IMO	RID	ADR
Proper shipping	no control	no control	no control	no control

Part XV REGULATORY INFORMATION

Regulatory Information: Consult your local, national and EU / international regulations. Danger sign: Not available

Dangerous terms: no information Safety Description:

S 24/25 Avoid contact with eyes and skin.

S 26 In case of contact with eyes, rush immediately with plenty of water and seek medical advice. S 37/39 Wear suitable gloves and eye / face protection.

Part XVI Other Information

MSDS preparation date: March 3rd, 2013

This MSDS information is based on our current information of the materials, just to describe the product's health, safety and environmental requirements to enable a better understanding of the parties concerned. This information is provided to you for study and confirmation. The risk and damage prevention measures described is not unique. One use of such information without any implied warranties or description. POWER PROOF Company does not assume any liability. So this MSDS cannot achieve the guarantee of any specific purpose. The relevant user has responsibility to test the safety of this product in advance, and to judge whether they meet your use purpose.

Part 4.

MATERIAL TEST REPORTS



TEST REPORT ON TENSILE STRENGTH & ELONGATION OF POWER PROTECT W-70

ACES Client	Power Proof Trading & Contracting	Report No.	TMR17084015 Rev-1
Owner	N.P.	Date Reported	25-09-17
РМС	N.P.	Sample No.	TMS17038172
Project Client	N.P	Request No.	TMQ17024251
Consultant	N.P.	Client Reference	Full payment in advance
Contractor	N.P.	Project No.	N.P
Project Name	Private		
Sample Description	Power Protect W-70 (Gel)	Sampled By	Client's Rep.
Source / Supplier	N.P	Sampling Date	18-07-17
Sample Location	N.P	Sampling Cert.	N.P.
Sample Reference	N.P.	Sampling Method	N.P.
RFI No.	PT17002256 Rev.1	Sample Size	See Below
Test Method	As Below	Sample Brt. in By	Client's Rep.
Test Method Var.	Nil	Dated Received	18-07-17
Tested By	David	Dated Tested	22-07-17

Test	Units	Test Method	Average Test Results
Tensile strength	MPa		5.49
Elongation	%	ASTM D638	62

Remarks : - The test results related only to the specimen(s) tested

-This report supersedes our report with ref. TMR17084015 dated 23-07-2017 which shall be considered as void.

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Eng.Ghaleb Al - Zubi Deputy Branch Manager





م.ب ١٩٥٧، الدوحة، قطر هاتف : ١٤١ - ٩٧٤ ٤٤ ٨٧٠ هاكس : ١٩٥٢، الدوحة، قطر هاتف : ٩٩٤ ٤٤ ٨٧٠ ٤٤ باكس : ٩٩٤ P.O.Box : 19579, Doha, Qatar Tel: +974 44 870 141 Fax: +974 44 870 146 E-mail: acesdoha@aces-int.com www.aces-int.com





TEST REPORT ON MODULUS ELASTICITY OF POWER PROTECT W-70

ACES Client	Power Proof Trading & Contracting	Report No.	TMR17084015/2 Rev-1
Owner	N.P.	Date Reported	23-07-17
РМС	N.P.	Sample No.	TMS17038172
Project Client	N.P	Request No.	TMQ17024251
Consultant	N.P.	Client Reference	Full payment in advance
Contractor	N.P.	Project No.	N.P
Project Name	Private		
Sample Description	Power Protect W-70 (Gel)	Sampled By	Client's Rep.
Source / Supplier	N.P	Sampling Date	18-07-17
Sample Location	N.P	Sampling Cert.	N.P.
Sample Reference	N.P.	Sampling Method	N.P.
RFI No.	PT17002256 Rev.1	Sample Size	See Below
Test Method	As Below	Sample Brt. in By	Client's Rep.
Test Method Var.	Nil	Dated Received	18-07-17
Tested By	David	Dated Tested	22-07-17

Test	Units	Test Method	Average Test Results
Modulus of elasticity	MPa	ASTM D638	4.69

Remarks : - The test results related only to the specimen(s) tested

-This report supersedes our report with ref. TMR17084015 dated 23-07-2017 which shall be considered as void.

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Eng.Ghaleb Al - Zubi Deputy Branch Manager





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TEST REPORT ON HARDNESS SHORE OF POWER PROTECT W-70

ACES Client	Power Proof Trading & Contracting	Report No.	TMR17084015/3 Rev-2
Owner	N.P.	Date Reported	27-09-17
РМС	N.P.	Sample No.	TMS17038172
Project Client	N.P	Request No.	TMQ17024251
Consultant	N.P.	Client Reference	Full payment in advance
Contractor	N.P.	Project No.	N.P
Project Name	Private		
Sample Description	Power Protect W-70 (Gel)	Sampled By	Client's Rep.
Source / Supplier	N.P	Sampling Date	18-07-17
Sample Location	N.P	Sampling Cert.	N.P.
Sample Reference	N.P.	Sampling Method	N.P.
RFI No.	PT17002256 Rev.1	Sample Size	See Below
Test Method	As Below	Sample Brt. in By	Client's Rep.
Test Method Var.	Nil	Dated Received	18-07-17
Tested By	David	Dated Tested	22-07-17

Test	Units	Test Method	Average Test Results
Hardness Shore 'A'	ā	ASTM D2240 - 05 Reapproved 2010	A/64/1

Remarks : - The test results related only to the specimen(s) tested

-This report supersedes our report with ref. TMR17084015/3 Rev-1 dated 23-07-2017 which shall be considered as void.



Eng.Ghaleb t-Zubi Deputy Branch Manager المركز السريحي Arab Center





م.ب ١٩٥٧٩، الدوحة، قطر هاتف : ١٤١ • ٩٧٤ ٤٤ ٨٧٠ فاكس : ١٩٥٧٩، الدوحة، قطر هاتف : ١٩٥٧٩ P.O.Box : 19579, Doha, Qatar Tel: +974 44 870 141 Fax: +974 44 870 146 E-mail: acesdoha@aces-int.com www.aces-int.com



Part 5.

MATERIAL APPROVALS

Certification of Registration



POWER PROOF TRADING & CONTRACTING

ADDRESS: BINMAHMOUD AREA, AL- JEZEERA STREET, BUILDING NO-56, FLOOR NO-03, OFFICE NO-303 DOHA, QATAR

QACS INTERNATIONAL

Certify that the quality management system of the above organisation has been audited and found to be in accordance with the requirements of standard detailed below.

ISO 9001:2015

BUILDING CHEMICALS MATERIALS & ADDITIVES FOR CONCRETE SOLUTIONS, CONCRETE INJECTION MACHINES, CONCRETE INJECTION ACCESSORIES, CONCRETE INJECTION RESIN, CONCRETE CORING, CONCRETE CUTTING, CONCRETE REPAIR, CRACKS INJECTION, LIGHT WEIGHT CONCRETE, FLOORINGS & COATINGS, CAR PARKING COATING, CONCRETE GRINDING SCREED WORKS, SHOTCRETE WORKS

Certificate No:- QAIS-Q-QAT-PP-02.18.117

This certification was conducted in accordance with the qacs international f.z.c auditing and Certification procedures and it is remain valid subject to annual surveillance audits.

Certificate Issue Date: 23rd April 2018 Date of Initial Registration: 23rd April 2018 Certificate Validity:- 3 Years 1st Surveillance Date: 22nd April 2019 2nd Surveillance Date: 22nd April 2020 Recertification Date:- 22nd April 2021

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

To Check the certificate validity please Refer Web:- (www.qacsintl.ae).







Management Systems Certification Body

QACS International F.Z.C Email id: info@qacsintl.ae, operationqacs@gmail.com www.qacsintl.ae



	Document No. :	PWA-RPD-CON-FM-1519
	Revision No. :	03
(JI	Issue Date :	15 Jan. 2019

Project Details		and the second second			
Document No:	DN107-P05-BTC-CON-MAR- G10233	Rev. No.:	00	Date:	16 July 2019
Project No:	IA 2016 C 066 G			Area:	Package 05
Project Title:	Infrastructure FS Gaps for Ba	ani HAJER I	Package	e 05 (P107-P05	i)
GEC	HYDER Consulting Middle Ea	ast Limited		Contractor:	Bin Omran Trading and Contracting Company

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We request the approval of the Engineer to supply the following materials for incorporation into the works

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List and attach all relevant technical literature marked to identify relevant description, current test certificates, samples as appropriate

- a) Company Profile
- b) Certificates , Compliance Statement , Technical Data Sheet , Warranty Certificate
- c) Test Certificate , Country of Origin
- d) Sample Warranty Certificates , Project Reference List
- e) Previous Approval, Product Catalogues,

Part 2 - Particulars of Manufacturer / Supplier

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Company Name:	POWERPROOF TRADING AND CONTRACTING
Address 1:	Doha, Qatar P.O. Box 7643
Address 2:	
Address 3:	
Address 4:	
e-mail:	aya@powerproofqatar.com

Page 1 of 2 20 JUL 2019

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RESHGHRL	Hudar
قطر فسلفرق الافضرار Quiar Deserves The Best	nyuer

Telephone No:	+974-44883266/	70009311				
Part 3 - Particulars	of Local Agent (if ap	plicable)				
Company Name:		2. A R	2	2		
Address 1:						
Address 2:						
Address 3:						
Address 4:						
e-mail:						
Telephone No:						
Part 4 - Delivery De	etails					
Ex-Works Total Duration:		- C	Latest Date for Order:			
Date Material Required on Site:			Estimated Date of Arrival on Site:			
full compliance with Name: ABDULSA	LAM AL DAMLAKHI		RIEOMRAN.UL-DE UL Extractionation Control ZD: IA 2016 Cot G	Date:	16 JULY	2019
D. 4.5. 050 D			INFRASTRUCTURE PS			
To Contractor:	No Common	Representation of the set				
ro contractor.		LECOND I	share this eros	MAT IS	useo.	INKS
Action Code A:	Approved as S	Submitted	7. Xw 20107/12 .	9		
Action Code B:	Revise and Re	ə-submit				
Action Code C:	Rejected		20			
Name:	man	mare vini	Hyder Position:	sales R	E, ,	
Signature:		under State	L'UNIT , TLA SELLULAS	TERESU VITAG		
	-	1	کو سیلتنج میدل (یست ا er Consulting Meddle Ea P.O.Box : 1854, Doha - Qa phone : 44245000 Fax : 44		17/10	7.

Approval by the GEC shall not relieve the Contractor of its obligations and liabilities under the contract or constitute authorization of any change to Contract Documents, and therefore, shall not imply any recognition whatsoever of additional time or cost to the contract.



Ref .:



17 April 2016

To: AKTOR-L&T-YAPI-STFA-JEC-JV (ALYSJ JV) Near Al Waab Petrol Station Behind Qtel Building Al Waab Street P.O. Box 24375, Doha, Qatar

M006-LBE-COM-LTR-01966

Attention: Mr. Carlo Germani - Contractor's Representative

Project: Qatar Integrated Railway Project (QIRP) – Gold Line Underground - Contract No: RTC/ 040/2012

Subject: Approval request under Sub-Clause 4.7.3 – General Conditions of Contract for Subcontractor: Power Proof Trading and Contracting for Floorings, Coatings, Light Weight Foamed Concrete and Screeding Works

The Engineer's Approval Request of local Subcontractors and Suppliers to carry out Lump Sum Works, all in accordance with Conditions of Contract Sub-Clause 4.7

Scope	a second s	contractor for Flo eding Works	orings	s, Coatings, Light V	Veight	t Foamed Concrete a	nd
SUPPLIER	N/A	PROVISIONAL SUM	N/A	INTERNATIONAL	N/A	STAGE 2 (App'd for duties)	V
SUBCONTRACTOR	V	LUMP SUM	1	LOCAL	√	STAGE 1 (Add to App'd List)	N/A

We refer to your Subcontractor Approval Request (SAR) submission ref: M006-GDB-COM-SAR-00705 Rev.2 dated 31 March 2016.

Pursuant to the Conditions of Contract, Sub-Clause 4.7.3, the Engineer hereby approves **Power Proof Trading and Contracting** as an approved Subcontractor for Floorings, Coatings, Light Weight Foamed Concrete and Screeding Works as a part of the LUMP SUM work elements.

The Contractor's attention is drawn to Sub-Clause 4.7.5, which requires the Contractor to give 28 days' notice to the Engineer of the intended date of commencement of the Subcontractor's work and of the commencement of such work on the Site.

ALYSJ

NAME

Omer

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Yours faithfully,

Remy Vandenbussche Engineers Assistant

Cc:

- Saad Ahmed Al Muhannadi Employer
- Daniel Leckel Engineer
- Samuel Adair McChesney Qatar Rail Project Director Sm
- John Thomas Gillespie, Qatar Rail Contract Administration Manager 🚁

Enclosed: Qatar Rail Document Review Sheet (1 page) Response required on or before: N/A

RDA/AQU

Acknowledged by

G

Gold Line Underground

DATE

ACTION

INFO.

F-UP

P.O. Box 20590 | Aarnal Tower | 4th Floor | Building 111 | Ar Wanda Street 841 Onaiza | West Bay Area | Doha | Oatar Tel: +974 4016 3133 | Fax: +974 4417 3629



Qatar Rail Document Review Sheet (Engineer)

ROJECT:	ŝ	(Gold Line	Metro				PROJECT NO .:			M006				
RS NUMB	ER:	1	M006-CON	1-ERS-00293		REV.:	2	DATE:			14-Apr-16				
RIGINATO	DR:	1	ALYSJ JV	S				TRANSMITTAL NO. / DA	DATE: M006-GDB-WTRAN-135298/ 31 March 2016						
OCUMENT	T NO.:	1	M006-GDB	-COM-SAR-00	705	REV.:	2	DISCIPLINE:			Commercials				
OCUMEN	T TITLE:				Request for Power Proof Trading at Weight Foamed Concrete and S			DOCUMENT TYPE:			Supplier / Sub Contr	actor Approval R	equest		
				Comment Cod	le Legend (for individual commen	ts):			Reply Cod	de Legend					
				1 = Action req 2 = advisory c	uired for this issue 3 = to be ad omment	Idressed at DD2	2		i=incorpo	rated, ii= eval	uated and not incorpo	rated for reason	stated		Open/Clos
No.	Initial	Page/Se	oction	Comment Code	Reviewers Comments (PMC/CPO, CTO)			Reply Code	A A TRANS	D&B C	ontractor/Other I	Party Reply		Reply State by Review	
1	МММ	Gene	əral	1	The proposed subcontractor is approved but for Tunnel and Cross Passag associated works. Please define clear scope of works.				I	and in Subw Screding W	formed that the prop vays <u>only</u> , for Floorin orks as a part of Lun Company's scope wa	gs, Coatings, Lig p Sum (LS) wor	phtweight Foa rk element.	med Concrete and for	Closed
2	RDA	Gene	eral	2	Please note that no Sub contractor/ Supplier are allowed to participate to the project until receiving the Engineer's prior written approval as per GCC Sub Clause 4.7.3 <u>corroborated</u> with the Contractor's notice required under GCC Sub clause 4.7.5.				E	Please be in of Contract Line Underg	ce with your comment formed that this SAF RTC/040/2012 for Quart for that the intend or is 28 days from the	t submission is a tar Rail Integrated date of comr	ted Railway Pr mencement of	above mentioned	Closed
					Status Code Legend:										
Doc	ument Review	Status Cod	le:	А	A. Approved B. Approved with comments			C. SONO D. NOWC: No Objectio	n with com	ments		St. 13	eil/Not approvei esponded/Revie		
	A MARINE	Lord The		PMC/C	PO Comments/Reply Status	A Standing	Chief	echnical Office (CTO)	Cont.	AL STR	Engineer/Delegated	Party		D&B Contractor	
Review	er's Name	Posit	ion	R	COMMENTS/STATUS ECOMMENDED BY PMC	COMM	ENTS/ST	ATUS RECOMMENDED BY	сто	NO	DBJECTION BY (Where	necessary)		REPLY APPROVED BY	
Maun	ig. Maw	Sr. Tunne	ling Er.	Name:	Paul Hegarty	Name:				Name:	Remy Vandenbussch	e	Name:	Carlo Germani	
Dan	Radu	Contr Adminis	Contraction of the second s	Position:	Commercial Manager	Position:				Position:	Project Director		Position:	Project Director	
				Date:	Jan Mar.	Date:				Signature:	*		Signature:		
						0.50000				Date:	18. Apr 80		Date:		



إتداد قطرر للتخطيط ذمم

QATAR DESIGN CONSORTIUM W.L.L ARCHITECTS, ENGINEERS, PROJECT MANAGERS & CONSULTANTS P.O. BOX: 5171, Doha-Qatar, TEL. 44191700,44191777, fax. 44433873 E-mail : mail@gdcgatar.net : www.gdcgatar.com.ga

DOCUMENT TRANSMITTAL ODC Ref. Job No T/PM/S-449/2019/0494 S-449 Date 11-05-19 No Contracto DESIGN, BID AND BUILD FOR FIREFIGHTING FLK-TRNS-2019-0409 Ref. No Project INFRASTRUCTURE AT MAIN CAMPUS AT FIRELINK WLL P.O. Box: 17202 То QATAR UNIVERSITY Fax 44995054 Subject Material Submittal Tel Mr. Christopher Clemente - PM 44995040/44995048 Cc: Eng.Irfan Ahmed Siddiqi - Project Engineer -Attention QU Please find enclosed the following Format SR NO Drawing/ Document No. Description Rev. No. No. of Copies (Electronic copy/ Status Hardcopy) MATERIAL SUBMITTAL -WATER BASED Hardcopy POLYURETHANE GEL 1 FLK-DMS-2019-0478 0 1 2 INJECTION RESIN -POWER Softcopy PROJECT W-70 (INCLUDING METHOD STATEMENT) 0-MA Y 2019 1 . 7 Kindly check the status of the following SR NO STATUS SR NO STATUS SR NO STATUS For review and comments 11 Reissued for tender Approved 1 6 Approved with comments 12 Approved for construction Reissued for approval 2 Issued for tender 3 Not approved 8 13 For information only 9 14 4 Revise and resubmit Issued for Construction See remarks Reissued for Construction For Retention 5 For approval 10 15 Remarks C Λ 00 Initiator's Signature Designation Date Please acknowledge receipt of the item(s) listed above by signing and returning a copy of this form **Receiver's Signature** Designation Date Clients Approval (Applicable only for design submissions) Please give your comments within days, otherwise the submission would be considered as approved **Revise and Resubmit** Approved Approved with comments Remarks **Authorized Signature** Designation Date

Doc. No. F 019 Revision No:04 Dated 01st October, 2014







		Rev No: 00
Date : 29-04-2019	MATERIAL SUBMITTAL	Submittal
PROJECT TITLE	FIRE FIGHTING INFRASTRU	No.: FLK-DMS-2019-04784 15
CONTRACT NO.	EIN/190/2014	
CONTRACTINO	FIRELINK	RECEIVED
DISCIPLINE :	CIVIL	APP 2019
		2 3 APR 2013
SUB CONTRACTOR	AL HUDA	FLADO
	Material Description	ET ODC
Material Name	Water Based Polyurethane Gel Injection	on Resin – Power Protect W-70
	(including method statement)	1153
B.O.Q. Ref.	N/A	
Manufacturer:	Power Proof Trading and contracting	Country of Origin: Qatar
Supplier Name:	Power Proof Trading and contracting	Agent Name: Power Proof Trading
	5	and contracting
Literature :	YES	Sample: NO
Fully Complies to	Fully Complies to Design Drawings:	Fully Complies to Technical
	YES	Requirements: YES
Specifications: YES		
	to any of the above items contractor to	provide details of Non Compliance &
Justification. IF not provide	ed the Approval is Not Valid	S R FARELING R/S
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Prepared by:	Tim	necked by:	New Submitt				
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AQC Engineer	Т	echnical Engineer	Resubmittal: X	Rev. 2-A			
Submitted by: Engr. Ma	hmoud Omar	12				_	
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Form Ref. No.: PRJ/F5/V3	Date of Issue: March 2014	Version: V3
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ubmittal Type :			Submittal No. : 310	-GCC-ALEC-J	V-DS-01535 Rev.:	0
- Technical Submit		- Others	Submittal Date :		26/03/17	
- PQP / ITP	Supplier Approx	oval	Expected F	esponse Date :		
- Test Reports	Subcon Appro	val	No. of Sets:			
- Design Data	- Method Stater	ment	a.) Hardcopy	1 SET	Size: A4	
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DOCUMENT REVIEW SHEET

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APPROVED NOT APPROVED		APPROVED AS NOTED	REVISE & RESUBMIT					
Reviewed By:	Name: BASSEM KARAM	Designation: <i>RE</i> + <i>PM</i>	Signature:	Date: 27.02.2017				

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الاتحاد للاستشارات الهندسية

استشاريون-معماريون-إنشائيون-كهرباء-ميكانيكا

MATERIAL SUBMITTAL No .125 Rev 01

Date :	24/01/2017						
Project Title :	Al Rabban Establishment Building (2B+G+M+7) Farij Bin Mahmoud						
Contractor :	International Decoration & Contracting Co.						
Owner :	Al Rabban Establishment Building (2B+G+M+7) Farij Bin Mahmoud						
Sub-Contractor :							
Manufacturer :	Country of Origin:						
Supplier Name :	Power Proof Trading & Contracting	Agent Na	Agent Name : Power Proof Trading				
		Contract	ing	Dansium Linte: 28-1-17			
Literature :	Concrete injection :-	Sample:		Received Sy: Ow			
	- Power Protect O-95			Pass to: Action Note			
	- Power Protect W-70			Civil Engr.			
Contractor Signature :	at	Stamp:		Technical Engr.			
Consultants Comments:	A CONTRACTOR OF A CONTRACTOR			ACCOLIN			
Architectural:			A	Name & Signature			
			B				
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Signature:	Date: 26/112017	Signature:	0	Date:			
A. Approved E. Additional info. Required	B. Approved as Noted C.	Revise & Resub Samples Requir		D. Rejected G. Test Required			
Approval by Consultants/Clien	t shall not relieve the Contractor from oundness and correctness of the subm	this obligations	under the	Contract, the Contractor shall			

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الشركة الدولية للديكور والمقاولات International Dec. & Cont. Co. Tel.: 4440350 - Fax: 4421654 P.O. Box: 4013, Doha, Qatar

United Consultants

Architectural, Structural, Mechanical & Electrical Consultants

NEW	مشروع المبناء ا	SPECIFICATION COM	IPLIANCE STATEMENT						
New Port Project Steering Committee NPP Port Infrastructure & Buildings Package NPP0057 Contractor : Sinohydro - United Construction Est JV Material: Concrete Crack Injection (Wet Cracks)									
NO.	PROPERTIES	QCS SPECIFICATION	TESTED VALUES	COMPLIANCE		REMARKS			
				YES	NO	in and the second se			
REFERI	ENCE: QCS 2010 SECTION 5, PART 16	.6.6, TABLE 16.6							
1	Description	Polyurethane foaming crack injection resin	Polyurethane foaming crack injection resin	Yes	-				
2	Elongation at Break	60% (ASTM D638 or Equivalent)	62%	Yes		Check the attached Acces Test Report No: 17084015 Rev-1			
3	Modulus of Elasticity	4MPa (DIN53457 or Equivalent)	4.69 Mpa	Yes		Check the attached Acces Test Report No: 17084015/2 Rev-1			
4	Shore A Hardness	4MPa (ASTM D2240 or Equivalent)	A/64/1	Yes		Check the attached Acces Test Report No: 17084015/3 Rev-2			



