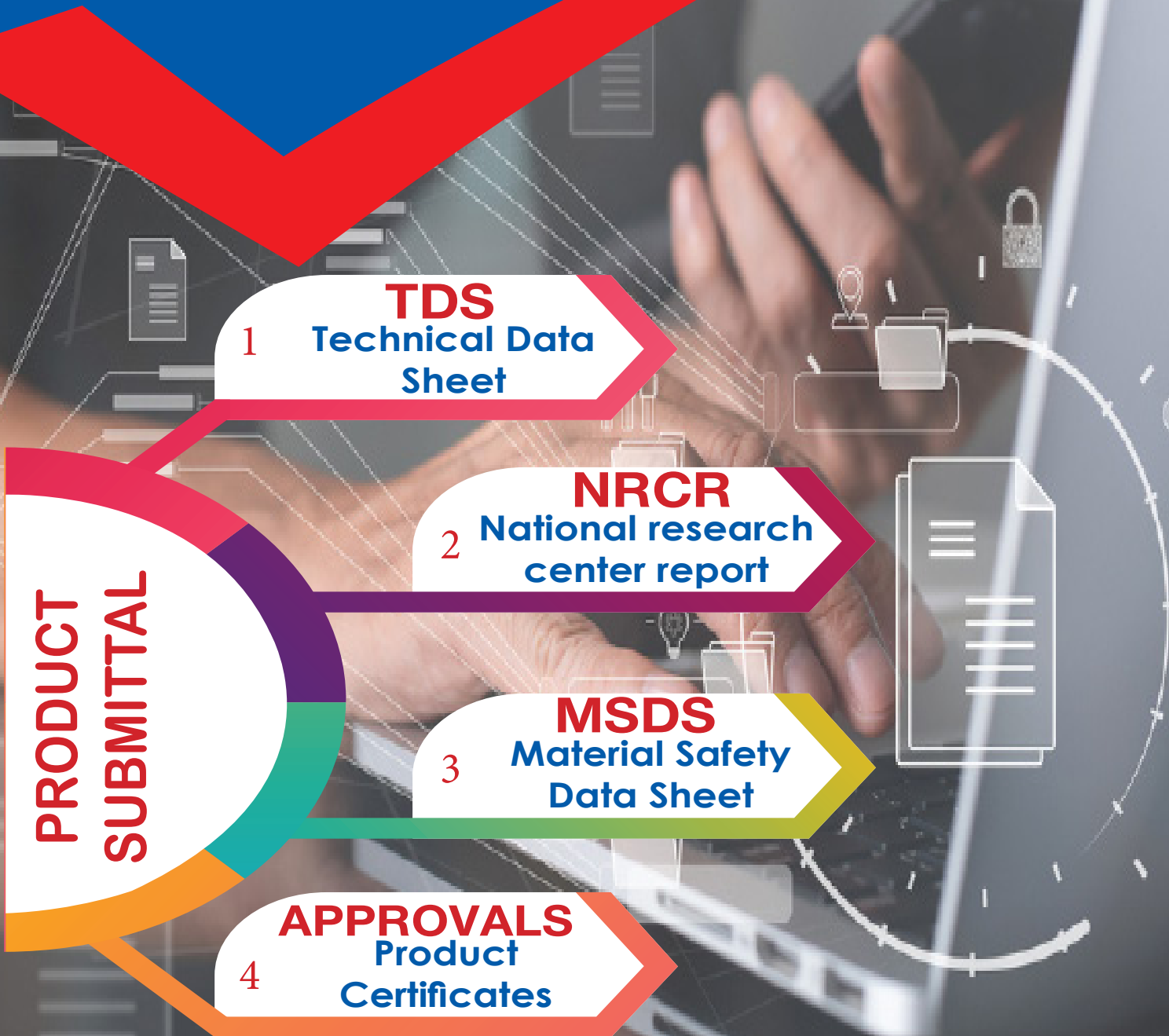


# PRODUCT SUBMITTAL

## TRI - Floor SL

is a solvent-free self leveling epoxy mortar based on a combination of specially selected fillers and high strength epoxy resins, that when mixed provides 2-4 mm. Epoxy resin floor topping with a unique laying properties.



## **TRI- FLOOR SL**

### **Self-leveling Epoxy Flooring**

#### **Description**

**TRI- FLOOR SL** is a three components solvent-free self leveling epoxy mortar based on a combination of specially selected fillers and high strength epoxy resins, that when mixed Provides 2-4 mm. Epoxy resin floor topping with a unique laying properties.

**TRI- FLOOR SL** is supplied in per-weighted packs, part (A),part (B) and filler(c) that are ready to mix and to apply



#### **Standard compliance**

The product is certified by (National Research Centre)

- ASTM D4060
- ASTM C882
- ASTM C267
- ASTM C1338

#### **Typical uses**

**TRI- FLOOR SL** used in areas subject to pedestrian and wheeled traffic, such as :-

- Laboratories.
- Food, Chemical and pharmaceutical industries.
- Kitchens.
- Schools.
- Electric Plants.
- Hospitals.
- Show rooms.
- Offices.
- Canteens.
- Production areas Shops & Supermarkets Garages.
- Warehouses & Stores.
- And any area where a hard wearing, hygienic, dust free and chemical resistance is required.

#### **Advantages**

- Easy to mix and to apply.
- Solvent-free
- Does not promote the growth of microorganisms.
- Excellent adhesion to concrete.
- High chemical resistance Eliminates bacterial growth.
- Durable, dense.
- Impervious, seamless floor Suitable for the Middle East conditions.
- Smooth surface.
- Easy to clean.

**Chemical Resistance**

Chemical Resistance			
Hydro chloride	10 %	30 %	No effect
Sulfuric acid	10 %	30 %	No effect
Acetic acid	10 %		No effect
Sodium hydroxide	50 %		No effect
Potassium hydroxide	50 %		No effect
Sodium chloride	50 %		No effect

**Technical Data @°25c**

Color	Grey (other required colors)
Solid Content (by weight)	100%
Density	1.850± 0.10 kg/L
Mixing ratio, A: B: C by weight	2A: 1B: 3C ((1 epoxy): 1 filler)(pk 14 kg) 2A : 1B : 3.9C (1 epoxy : 1.285 filler) (pk 16 kg)
Pot life	30 -45 min. (decreases at higher temperatures)
Initial setting time	8 hours
Final setting time	24 hours
Full hardness	7 days
Min. Application temperature	10° C
Rate of use (theoretical)	3 -4 kg /m <sup>2</sup> / 2 mm (depending on surface conditions)
Adhesion strength to concrete ASTM C882	2.18 N/mm <sup>2</sup> (concrete failure)
Adhesion strength to steel ASTM C882	3.18 N/mm <sup>2</sup>
Abrasion resistance	0.11 mm loss in thickness
Compressive strength (ASTM -579)	60.51 N/mm <sup>2</sup> after 7 days
Flexural strength (ASTM -C 293)	25.71 N/mm <sup>2</sup> after 7 days
Tensile strength (ASTM D-638)	16.14 N/mm <sup>2</sup> after 7 days

**Directions for use**

**Surfaces Preparation**

All surfaces must be clean, dry and free from oil, grease and loosely adhering particles. Cement laitance should be removed mechanically.

**Priming**

The prepared surface should be primed with **Tri-Prime** (see separate data sheet).

Mix two components of the primer and then apply with roller or stiff brush.

If the substrate is too porous, two coats of the primer are recommended.

**Mixing**

**TRI- FLOOR SL** is supplied in part A + Part B + Part C. Mix part A and Part B pack in the mixing container using a slow speed electric drill. Add part C slowly while mixing.

Mix for 5 minutes until homogeneous consistency is achieved.

**Application**

Pour the mixed materials onto the prepared and primed substrate. Spread the required thickness using a toothed trowel or comb.

After laying the materials use a spiked roller to distribute evenly and remove trapped air.

**For more information , review Tri-chem's application methodology.**



**Factory & Head Office:**

6 October City - 4th Industrial Zone - Al Oula Industrial Zone Plot No.: 14  
Tel.: (002) 011 195 48267 - Sales: (002) 010 007 88817 - (002) 011 184 87597  
Technical Support Call : (002) 011 184 87880 - Email: sales@tichem-eg.com

www.trichem-eg.com



## Coverage

3 -4 kg /m<sup>2</sup> / 2 mm (depending on surface conditions)

## Package

Tri -Floor SL : is available in pk 14 kg , 16 kg.

## Shelf Life

24months in unopened condition if stored as Per the recommendations.

Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

## Storage conditions

- Store the material in a cool, dry and covered place.
- Temperature should not exceed 35 °C.
- Do not expose the pails to direct sunlight and keep away from all sources of heat.

## Cleaning

Clean all tools and equipment immediately after use with **thinner**.

## Health and safety responsibility

- Workplace health and safety is all about sensibly managing risks to protect TRI-CHEM's workers and business.
- ISO 45001 is a systematic health and safety management is characterized by strong leadership involving managers, workers, suppliers, contractors and customers and also health and safety management is an essential part of the movement towards sustainable development.
- Spillages should be washed down immediately.
- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.

## Sustainability and environmental accountability

- TRI-CHEM's Environmental sustainability is the accountability to conserve natural resources and protect global ecosystems to support health and well-being for this a more positive approach is that accountability guides the actions of power-holders towards more socially and environmentally sustainable results.

## Technical support

- For any technical support, please contact TRI-CHEM technical office or representatives.

## Institutional Excellence and quality performance

- Institutional excellence in TRI-CHEM refers to achieving high levels of performance, quality and effectiveness in all aspects of TRI-CHEM company's work, it involves a systematic and continuous effort to improve an organization's performance by applying best practices, innovative approaches and evidence-based strategies, institutional excellence spans various areas, such as training , research, innovation, community engagement, governance, management and sustainability, and involves setting high standards, measuring performance against these standards and continuously improving performance to meet or exceed these standards, excellence in TRI-CHEM also includes a culture of continuous improvement and learning, where everyone in the organization is committed to achieving the organization's goals, working together to find solutions to challenges and opportunities, and requires a collaborative approach that includes all stakeholders.
- All products originating from TRI-CHEM facility are manufactured under a quality management system independently certified to conform the requirements of the quality standards ( ISO 9001:2015).

## Disclaimer

- While TRI-CHEM guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control.
- TRI-CHEM is recommended to verify with TRI-CHEM that the product is suitable for the intended use, and that this data sheet version is the latest one.
- TRI-CHEM may modify it without prior notice and technical characteristics are listed for guidance only.
- Any specification, recommendation or information mentioned in this product data sheet is (to TRI-CHEM's best knowledge) true and reliable.
- However, because TRI-CHEM has no influence on the application method of these products and the care taken, the company cannot accept any liability arising from the use of its products. TRI-CHEM's warranty is therefore limited to the quality of the materials supplied which are guaranteed against defective materials.

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# PRODUCT SUBMITTAL

## TRI - Floor SL

is a solvent-free self leveling epoxy mortar based on a combination of specially selected fillers and high strength epoxy resins, that when mixed provides 2-4 mm. Epoxy resin floor topping with a unique laying properties.

**NRCR**  
2 National research  
center report





NATIONAL RESEARCH CENTRE  
TAHRIR St. DOKKI, CAIRO, EGYPT  
Central Unit For Analysis And  
Scientific Services ( CUASS )  
Material Test Lab.

المركز القومي للبحوث

الدقى . القاهرة . جمهورية مصر العربية  
وحدة التحاليل و الخدمات العلمية المركزية  
معمل اختبار المواد



# Test Report

**Report No.**

**MO1 8444 04 2022**

**Client**

**Tri-chem Construction chemicals**

**Authority & date**

**Request Orders 28/4/2022**

**Items Tested**

**TRI - FLOOR SL**

**Results**

The detailed test results are given on the following pages of this report ( 5 pages) .

**Report Typist**

\* **Mis. Naglaa Mohamed-Sara Abdel Reheam**

**Test carried by**

**Noha Samir**

\* **Mis . Fatma El Zahraa Fikry**

\* **H.Eng. Ahmed Said**

\* **Chem. Amr El Shafey**

\* **Dr. Abou El Ftouh Abd El Hakem**

**Authorized by**

**Prof. Dr. Mostafa Zaki Mostafa**

\* **The Supervisor of ceramics, Polymer and Solid Matter Department.**

\* **Management Representative and Quality Assurance Manager.**

**Issue date**

**19/5/2022**

**Condition of Test & Issue**

The test specimen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .

شارع التحرير - الدقى - القاهرة

مباشر ١٨١٠  
فاكس ٣٣٣٨٧٨٠٣

داخلي ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢  
٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



E-mail : nrc1302a@yahoo.com



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المركز القومي للبحوث

القاهرة . جمهورية مصر العربية  
وحدة التحليل و الخدمات العلمية المركزية  
معمل اختبار المواد



## To / Tri-chem Construction chemicals

Dear Sir.,

With correspondence to your request dated 28/4/2022 concerning the testing sample of TRI - FLOOR SL , We would like to inform you that the all following needed tests were carried out which namely:

- 1- Bond strength test to concrete according to ASTM D4541
- 2- Hardness test (Shore D) according to ASTM D2240
- 3- Compressive strength test according to ASTM C579
- 4- Flexural strength test according to ASTM C580
- 5- Tensile strength Test according to ASTM D638

We would like to inform you that the needed test was carried out taking into consideration the following conditions :

- 1- In all mechanical properties GALDABINI – QUASAR 600 – Made In Italy Universal Testing Machine was used This type has a self calibration , zero adjusting and automatic balance , which are done daily before testing or during testing this testing instrument is accompanied by a highly reliable system for evaluating the mechanical properties .
- 2- Measuring drum of sensitivity  $\pm 0.01$ mm was used for dimensions evaluation.
- 3- On heating a Memmert West Germany oven was used .
- 4- Weighing Balance with tolerance  $\pm 0.0001$  g was used in determining the weights .
- 5- Braive Instruments
- 6- All used Machineries and apparatuses were calibrated periodically

The following tables give the obtained results representing the sample delivered from your company .



شارع التحرير - الدقى - القاهرة

مباشر ١٨١٠  
فاكس ٣٣٣٨٧٨٠٣

داخلي ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢

٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



E-mail : nrc1302a@yahoo.com

***Test results on a sample of TRI - FLOOR SL***

***Delivered from Tri-chem Construction chemicals***

***1- Bond strength test to concrete according to ASTM D4541***

No.	Bond strength (N/mm <sup>2</sup> )	Mean (N/mm <sup>2</sup> )
1	1.47	1.43
2	1.39	
3	1.45	
4	1.41	
5	1.43	

***2- Hardness test (Shore D) according to ASTM D2240***

No.	Hardness (Shore D)	The mean value
1	81	80
2	80	
3	80	
4	80	
5	81	

***3- Compressive strength test according to ASTM C579***

No.	Compressive strength (N/mm <sup>2</sup> )	The mean value (N/mm <sup>2</sup> )
1	60.23	60.51
2	61.01	
3	60.33	
4	61.71	
5	59.26	





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وحدة التحاليل و الخدمات العلمية المركزية  
معمل اختبار المواد



***Test results on a sample of TRI - FLOOR SL***

***Delivered from Tri-chem Construction chemicals***

***4- Flexural strength test according to ASTM C580***

No.	Flexural strength (N/mm <sup>2</sup> )	Mean (N/mm <sup>2</sup> )
1	25.77	25.71
2	25.36	
3	25.49	
4	26.11	
5	25.82	

***5- Tensile strength Test according to ASTM D638***

No.	Tensile strength (N/mm <sup>2</sup> )	The mean value (N/mm <sup>2</sup> )
1	16.27	16.14
2	16.01	
3	15.92	
4	16.11	
5	16.37	



شارع التحرير - الدقى - القاهرة

مباشر ١٨١٠  
فاكس ٣٣٣٨٧٨٠٣

داخلى ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢  
٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



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**المركز القومي للبحوث**

الدقى . القاهرة . جمهورية مصر العربية  
وحدة التحاليل و الخدمات العلمية المركزية  
معمل اختبار المواد



*This report was given to you representing only the results for the testing sample of TRI - FLOOR SL , Delivered from Tri-chem Construction chemicals , These results and conclusions were given to you without any responsibility on THE CERAMICS, POLYMERS AND SOLID MATTER DEP. of THE MATERIAL TEST LAB in THE NATIONAL RESEARCH CENTRE for pick up the samples to be tested .*

**Head of Director of The Board of Central Department  
for Scientific Analysis and Tests**

&

**SUPERVISOR**  
**OF CERAMICS, POLYMER AND  
SOLID MATTER DEPARTMENT**

**PROF.DR. MOSTAFA ZAKI MOSTAFA**



شارع التحرير - الدقى - القاهرة

٣٣٣٨٧٨٠٣

مباشر  
فاكس

١٨١٠

داخلي

١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢

٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



**E-mail : nrc1302a@yahoo.com**

# PRODUCT SUBMITTAL

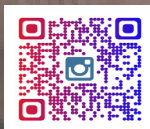
## TRI - Floor SL

is a solvent-free self leveling epoxy mortar based on a combination of specially selected fillers and high strength epoxy resins, that when mixed provides 2-4 mm. Epoxy resin floor topping with a unique laying properties.

3

**MSDS**  
**Material Safety**  
**Data Sheet**

UNDER REQUEST

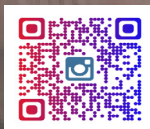


# PRODUCT SUBMITTAL

## TRI - Floor SL

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**4** **APPROVALS**  
**Product**  
**Certificates**



Material Submittal No. ( **ABDOS MS-C-29-00** )

Owner : **ABDOS MANUFACTURING** Date : **14/08/2024**  
 Main Consultant : **Elite Consolidated Engineers** To : **CAIRO CONSULT**  
 Main Contractor : **RADWA CONTRACTING - STEEL WORKS** Subject : **EPOXY SELF-LEVELING MATERIAL SUBMITTAL (TRI-CHEM)**

Material Submittal Category :

Structural  Civil  Architectural  Mechanical   
 Firefighting  Electrical   
 HVAC  Low Current   
 Plumbing  Fire Alarm   
 Lighting   
 Power

Location : Spec. Ref :  
 Drawing Ref : BOQ Ref :

Item	Material Submittal Description	Attachments	NO. Of Copies	Notes
	EPOXY SELF-LEVELING MATERIAL SUBMITTAL (TRI-CHEM)	DATA SHEET (TRI-CHEM)	1	

For Approval Information  Reviewed  Others

Contractor Sign

Technical Engineer  
 Name : **NOBAMED AHMED ALEWA** Signature : *[Signature]*

Consultant Sign

Consultant Receiving Document Controller : Signature :



Consultant Comment:

*ATV 735* *من مخرجات العمل في الموقع*

Approved (A)  Approved as Noted (B)  Revise and Resubmit (C)  Rejected (D)

Consultant Engineer: *[Signature]* PM Engineer : Contractor Engineer : *[Signature]* Owner Engineer :  
 Date : *2024* Date : *19* Date :



Engineer: Project Manager & Consultant <b>ECG</b> <small>مجموعة الشركات الهندسية ENGINEERING CONSULTANTS GROUP S.A.</small>	Client:  <b>THE CROWN</b>	Submittal No. : MTR/ARCH/0042 Rev. No. : 00 Phase : 01 Date : 11-1-2021
Contractor: 		Page : 1/1 Attachments : <u>3A4</u>

PROJECT : The Crown - Palm Hills

**MATERIAL SUBMITTAL**

From: Eicons	To: ECG
Copies To: <input checked="" type="checkbox"/> EMPLOYER- Palm Hills	
Reference : Specifications - Sec. -----	<input type="checkbox"/> Civil <input checked="" type="checkbox"/> Architectural <input type="checkbox"/> Electrical <input type="checkbox"/> Mecchanical <input type="checkbox"/> Other

Material Title : اعتماد مواد (تراي- كيم) للدهانات الايبوكسية لحماية الارضيات الخرسانية والمعدنية الموجودة فى غرفه التوزيع

Material Description :

Fixing Location :

Drawing Reference :

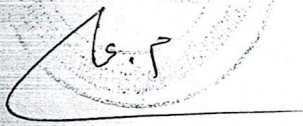
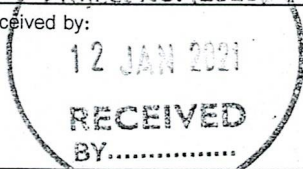
BOQ Reference : Specification Reference:

Manufacturer :

Imported  Local

Technical Data Attached: Yes  No  Sample Attached: Yes  No

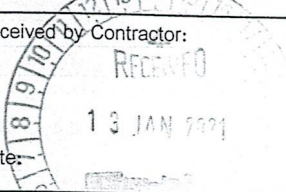
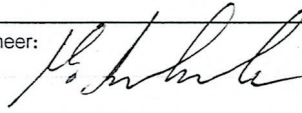
The Material submitted for approval has been checked for conformity with drawings and Specifications and any deviations are noted in the attached compliance sheet , 'if any'.

Contractor's Project Manager : 	Received by: 	<input type="checkbox"/> Code A ( Approved ) <input checked="" type="checkbox"/> Code B ( Approved as Noted ) <input type="checkbox"/> Code C (Approved in principle& Resubmit) <input type="checkbox"/> Code D ( Rejected )
Date :		

Engineer's Comments :

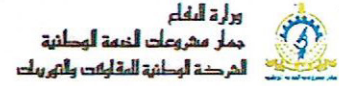
*Follow the manufacturer instructions and recommendations*

*- This approval is based on attached approval for the prequalification*

Received by Contractor: 	CC To Employer	Engineer: 
Date:		Date: 12/1/2021

Approval shall not relieve the Contractor of his liabilities under the Contract nor constitute authorization of any change to the Contract Documents.

ST=STRUCTURE	ARCH=ARCHITECTURE	COMP=COMPOSITE	EL=ELECTRICAL
FF=FIRE FIGHTING	PL=PLUMBING	HVAC	OT=OTHERT



MS-AR-039

رقم

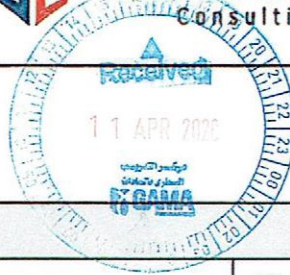
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مراجعة

08-04-20

تاريخ

تقديم المواد



كود المشروع: VTC-199

إسم المشروع: مركز التدريب البيطري بالسادات

<input type="checkbox"/>	كهرباء	<input type="checkbox"/>	ميكانيكا	<input checked="" type="checkbox"/>	معماري	<input type="checkbox"/>	مدني
<input type="checkbox"/>	أخري	<input type="checkbox"/>	طرق	<input type="checkbox"/>	بنية تحتية	<input type="checkbox"/>	جهد منخفض

مرجع المواصفات:

مرجع فاتورة الكميات

وصف المواد: أرضيات سيلف ليفلتج ايبوكسي - فلور اس ال

ملاحظات	مصدر		مرفقات			إسم الشركة	رقم
	مستورد	محلي	ورقة البيانات	كتالوج	عينة		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tri-Chem	1
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		3

<input type="checkbox"/>	مرفوض ويعاد إرساله	<input type="checkbox"/>	موافقة مع ملاحظات	<input checked="" type="checkbox"/>	موافقة
--------------------------	--------------------	--------------------------	-------------------	-------------------------------------	--------

ملاحظات الاستشاري:

أحمد استشاري  
C.C.T

إلى الاستشاري

من جاما

مدير مكتب الاستشاري  
م. أحمد استشاري الخواص  
C.C.T

المسمى الوظيفي  
الإسم  
التوقيع  
التاريخ

مدير المكتب الفني  
م. هيثم البرقوقي  
C.C.T  
8-Apr-2020

المسمى الوظيفي  
الإسم  
التوقيع  
التاريخ

تم الإستلام من قبل الاستشاري







Plot No. 14 - Al Oula Industrial Park  
Developers Area - 6<sup>th</sup> of October City,  
Giza - Egypt.

قطعة ١٤ - مجمع الأولى الصناعي - منطقة  
المطورين - مدينة ٦ أكتوبر - الجيزة - مصر

Tel.:(+2) 01119548267 - Fax: (+2) 38588109

Sales: (+2) 01065358936 - (+2) 01022778637

Email: Sales@trichem-eg.com

