



# iFlex PVC<sup>®</sup> Submittal



# iFlex PVC®



## Description

The **iFlex PVC®** is a non reinforced liner on base of plasticized polyvinylchloride PVC, type T according to Standard EN 13967. **iFlex PVC®** is produced by extrusion of the selected secondary raw materials of PVC without other polymer materials.

## Key Features

- Excellent adhesion to many materials.
- Weather and water resistant.
- UV resistant.
- Available with normal and rapid hardening grades of adhesive.
- Root resistant.
- Good resistance to many chemicals.
- Versatile system suitable for many difficult situations.
- Extremely flexible.

## Uses

Sealing system for expansion, construction and connection joints in:

- Joints with extreme movement.
- Water retaining structures and drinking water reservoirs.
- Hydro electric power plants.
- Sewage treatment plants.
- Basements.
- Swimming pools.



## Application Instructions

**Surface Preparation:** Ensure that surfaces to be sealed are clean, dry, sound and free from frost. Age of concrete 4-6 weeks depending on environmental conditions. Clean all joints of release agents, water repellents, laitance, dust, dirt, old sealants and other contaminants which could impair adhesion. Nonporous surfaces should be cleaned and degreased by wiping with a suitable solvent such as **iSolv S40®** Universal Cleaner on an oil and lintfree cloth before application of sealant. Porous substrates should be mechanically cleaned using a steel brush, sanding disc or any similar means.

Note: When using any solvent, always provide adequate ventilation. Avoid heat, sparks and open flames. Use solvent resistant gloves. Observe and follow all precautions listed on solvent container label.

**Installation:** Measure and cut to exact length needed for continuous length, being careful not to pull or stretch the membrane. Make sure that both deck edge surfaces are properly levelled. High spots shall be cut and low spots shall be filled in. Do not install if the joint's anticipated movement will exceed the system's movement range. Minimize splice points by installing membrane in longest possible continuous lengths.

Do not allow any of the components to freeze prior to installation. Store all **EpoMortar SF®** out of direct sunlight in a dry location. Periodically inspect the applied material and repair localized areas as needed.

# iFlex PVC<sup>®</sup>

Consult an iChemEG representative for additional information. Proper application is the responsibility of the user. Field visits by iChemEG personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

**Mixing EpoMortar SF<sup>®</sup>:** Mix parts A+B together for at least 2 minutes with a mixing spindle attached to a slow speed electric drill (max. 500 rpm) until the material becomes smooth in consistency.

Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx.

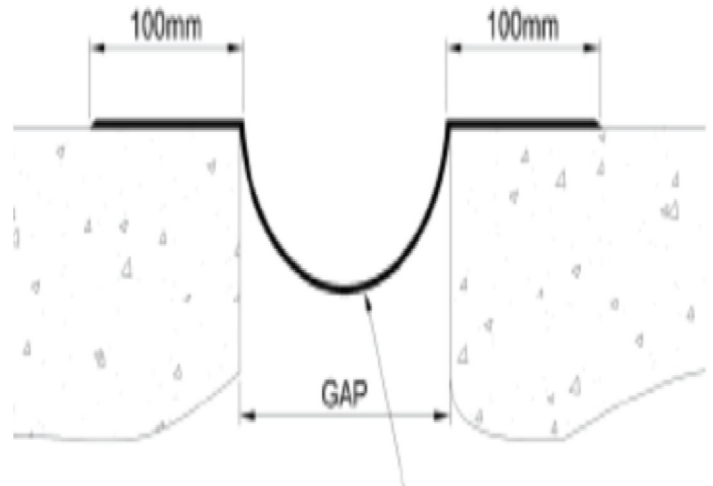
1 more minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its potlife.

**Selection of iFlex PVC<sup>®</sup> tape size:** Selection of the correct tape size (width) and of a suitable iChemEG adhesive depends on the expected performance. If necessary, ask for technical advice. For higher movement, place and fix tape in a loop into the joint.

Apply a suitable thoroughly mixed **EpoMortar SF<sup>®</sup>** adhesive on both sides of the joint / crack into the prepared substrate, using a suitable trowel. If the concrete substrate is damp, force the adhesive well into the substrate. Layer thickness of adhesive should be 2 mm and the width on each side at 100 mm.

Apply the **EpoMortar SF<sup>®</sup>** tape within the open time of the adhesive. Press the tape firmly and without trapping air into the adhesive by using a suitable roller. The adhesive should be squeezed out on both sides of the tape by ~ 6 mm.

**Protect:** The **iFlex PVC<sup>®</sup>** Tape must be protected from mechanical damage.



## Packaging

**Available in :** Rolls of 20 m

**Thickness :** 1.5 mm

**Width :** 20, 25, 32 cm

## Shelf Life

Shelf life is up to 36 months when stored as per recommendations.

## Store

Store components in original containers in a clean, dry location. Ensure temperature or moisture sensitive components are stored in a tempered location. The recommended storage temperature is from -5 °C to \*30 °C.

Contractor to provide temporary protective covers on all installed finished surfaces. Protection is required to guard against both surface abrasions as well as overloading of horizontal deck components by construction traffic .



ISO 17025, 14001, 18001, 9001

وزارة البحث العلمي والتكنولوجيا  
معهد بحوث البترول المصري  
Egyptian Petroleum Research Institute (EPRRI)  
مركز حماية الأسطح المعدنية spc

### تقرير فني لعينة مطاط الخاص بشركة (iChemEG)

تاريخ : 2023/7/19

العينة: قطاع من شريط مطاطي لونه رمادي من مادة (iFlex PVC)

السادة شركة (iChemEG)

لقد تمت الاختبارات لقطاع من شريط مطاطي لونه رمادي من مادة (iFlex PVC) طبقا للمواصفات القياسية العالمية وقد سجلت النتائج في الجدول التالي

Test type	Results	Reference value	Standard	Remark
Tensile strength	11.67 N/mm <sup>2</sup>	≥ 10 N/mm <sup>2</sup>	DIN 53455	Accept
Tear strength	13.54 N/mm	≥ 12 N/mm	DIN 53507 A	Accept
Shore A Hardness	91	90 ± 5	DIN 53505	Accept
Elongation at Break	320 %	> 300 %	DIN 53455	Accept

الخلاصة : العينة اجتازت الاختبارات السابقة بنجاح طبقا للمواصفات القياسية العالمية

استشاري المركز

أ.د. أسامة أبو العنين



مدير مركز حماية الأسطح

أ.د. أشرف الصعيد

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# iFlex PVC<sup>®</sup>

## Our Previous Submittals & Approvals



HYDE PARK PROJECT- NEW CAIRO					Submittal Transmittal No.		Rev.	
SUBMITTAL TRANSMITTAL					MTR-ARCH			
MTR-ARCH					CC-CP147-MTR-ARCH-0088		1	
CC-CP147-MTR-ARCH-0088					Date: 25-Sep-2024			
TRANSMISSION OF DRAWINGS, DOCUMENTS, MATERIALS, ETC.					SUBMITTED FOR		CODE	
Contract Name : Civic Center					Contract No.: CP147			
From: Redcon Spain					Cluster No.: Civic Center			
To: Mimar Egypt Engineering Consultant					APPROVAL			
WE ARE SENDING HEREWITH / UNDER SEPARATE COVER, THE DRAWINGS, DOCUMENTS / SAMPLES LISTED BELOW. (DELETE AS NECESSARY)					YOUR INFORMATION			
					OTHERS			
					ACTION			
					APPROVED		A	
					APPROVED AS NOTED		B	
					REVISE AND RESUBMIT		C	
					REJECTED		D	
					FOR INFORMATION		E	
QTY	ITEM REF	REV	DOCUMENT TYPE	COPIES	DESCRIPTION	+ TYPE	CODE	Action <sup>2</sup>
1		0	MTR-ARCH		MATERIAL SUBMITAL FOR: HIGH PERFORMANCE JOINT AND CRACK SEALING ( FLOOR TO FLOOR ) ITEM : IFLEX PVC FOR JOINTS 5cm AND 10cm COMPANY : I CHEM	MD 2 SM	✓	B
					Attachments :			
					Manufacturer's Data ( 03 paper Size A4 )			
					FOR CONTRACTOR : project manager ASHRAF FAWAZ		DATE: 25-Sep-2024	
<p>Engineer to enter Action Codes and Remarks, and return to Contractor</p> <p>REMARKS:</p> <p>ENGINEER'S COMMENTS: <i>* Technically approved, contractor to follow manufacturer's recommendation.</i></p> <p><i>← All required details of fixation to be submitted.</i></p>								
<p>HYDE PARK civic Center</p> <p>28 SEP 2024</p> <p>Received</p> <p>REDCON SPAIN CO.</p>					<p>28/9/2024</p> <p>mimar</p> <p>HPD-NEW CAIRO BUSINESS DISTRICT</p>			
COPIES TO					FOR ENGINEER			
EMPLOYER'S COMMENTS (IF REQUIRED)					DATE:			
COPIES TO					FOR EMPLOYER			
CORRECTIONS OR COMMENTS MADE RELATIVE TO SUBMITTALS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.					DATE:			
<p>This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents.</p> <p>The contractor is responsible for confirming and correlating all quantities and dimensions selecting fabrication processes and techniques of construction; coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.</p>								
<p>TYPE: SD:Shop Drawing CA:Calculation SM:Sample MS:Method Statement GT:Guarantee TF:Temporary Facilities</p> <p>OT:Other CT:Certificates TT:Test Results MK:Mock-up MD:Manufacturer's Data</p>								



FOR ENGINEERING CONSULTANCY



## MATERIAL SUBMITTAL (MS)

Project Name : O-West  
 Project No. : 1223  
 Employer : ORASCOM Development  
 Site Supervision Consultant: NATURE FOR ENGINEERING CONSULTANCY

Package : Comercial Building  
 Phase : Landscape  
 Contractor: RED SEA Construction

From : RED SEA Construction  
 To : NATURE FOR ENGINEERING CONSULTANCY  
 Attn. : Eng / MOHAMED SHALABY

Date : 03-07-2024  
 Submittal Ref.: OW-NAT-23-MS-ARCH-016-01  
 Previous Ref.: -----

Subject : **OBD PACKAGE - EXPANTION JOINTS**  
 Material/ Equipment For Approval: 3 Samples  
 Description : **EXPANTION JOINTS ( WALL TO WALL - WALL TO FLOOR - FLOOR TO FLOOR- COVER- COLOR RUBER GRAY- COLOR RUBER BEIGE - FLOOR TO FLOOR METAL)**

Specification Reference : ----- Quantity : ----- Bill of Quantities Reference : -----

Manufacturer's Details:  
 Manufacturer : iChem  
 Model Number : ----- Serial number : -----  
 Country of Origin: ----- Certificate of origin: -----  
 Storage Location: -----

Red Sea Construction  
 Project O - West  
 Date of arrival on site: 03 JUL 2024  
 Bill of lading: -----  
 Contractor Authorized Representative

Action Code Legend:  
 (A) Approved (B) Approved as Noted (C) Revise and Resubmit (D) Rejected

Notes:  
 • Production, supply and /or implementation shall proceed only when action code is A / or B.  
 • Regarding action code C, resubmittal shall be within the limit set in the contract.  
 • Review dose not relieve the contractor from responsibility of compliance with all requirements of contract documents.  
 • If rejected please see comments.

Consultant Comments:  
 Inspection Report:

	Yes/No	Initials Inspector	Engineer
1- Physical damage?	_____	_____	_____
2- Details given above correct?	_____	_____	_____
3- Conforms with approved submission?	_____	_____	_____
4- Accessories / Spare parts included?	_____	_____	_____

Remarks : wall to wall / I Floor 50 +  
 Consultant Manager Remarks: wall to floor / 424E 50 + with PVC liner  
 Floor to floor / 424 - 50 + with PVC liner  
 Actions required from Contractor: Color for ORF to confirm or advice else

Attachments:  
 Hard Copy  Soft Copy (CD)

Employer's Representative Comments (if required):  
 Approved with cover sample No. 4 After submitting sample with beige color for cover to match with marble and for out door

Site Supervision Consultant Authorized Representative  
 Employer Authorized Representative

Approved gray color for sidewalks & Roads + Planters

4 - JUL 2024



<b>طلب اعتماد مواد</b> <b>Material Approval Request</b>			
		التاريخ: 03/06/2024 رقم الطلب: MCC-MUST-NAK-AR-098-00 العميل: جامعة مصر للتكنولوجيا	
العميل: <b>ICHEM</b> الشركة: <b>الشركة المصرية</b>		نوع المستل: <input type="checkbox"/> As Built Draw <input checked="" type="checkbox"/> Specs مواد البناء: <input type="checkbox"/> ميكانيكا <input type="checkbox"/> كهرباء <input checked="" type="checkbox"/> معماري <input type="checkbox"/> تشييد	
الترخيصات: <b>DATA SHEET + سبدا</b>		نوع الوظيفة الاعلى:	
SR	Material Approval Request :		CODE
1	T330 IFLEX PVC طلب اعتماد قاسم		A
2			
3			
4			
5			
<b>MUST CONSTRUCTION COMPANY</b>			المقاول/Contractor:
الاسم/Name: <b>محمد السيد</b> التوقيع/Signature:		مدير المشروع/المطور Project Manager	
الاسم/Name: <b>محمد السيد</b> التوقيع/Signature:		مهندس الجودة/المسؤول Quality Engineer	
نتيجة الفحص / Result			
التقييم / Evaluation		تاريخ الاستلام / Date:	
مرفوض / Rejected <input type="checkbox"/>	إعادة تقديم / Resubmit <input type="checkbox"/>	معتمد بظروفا / Approved as noted <input type="checkbox"/>	معتمد / Approved <input checked="" type="checkbox"/>
قرار و التوصيات / Recommendation:			
لمطابق مع المواصفات مع ملاحظة جميع التفاصيل الموضحة وايضا الطريقة المقصده الشركة			
مع عمل عليه لتوفيقنا والافضل			
الاسم/Name: <b>محمد السيد</b> التوقيع/Signature:		مدير المشروع Project Manager	
الاسم/Name: <b>محمد السيد</b> التوقيع/Signature:		الاستشاري Consultant	

iFlex PVC Submittal - November 2024, Version 1.1.6



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