



EpoMortar SF[®] Submittal



EpoMortar SF[®]

Description

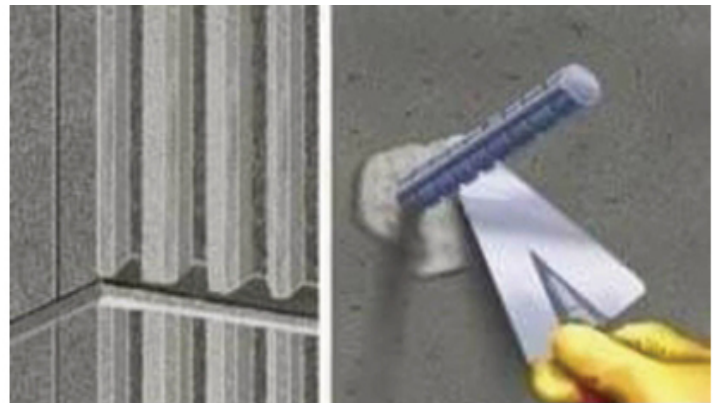
EpoMortar SF[®] is a non slumping epoxy bedding compound and adhesive. It is a two pack, fine aggregate filled, fast curing material, ideal for a variety of bedding, gap filling and concrete repair applications.

EpoMortar SF[®] is a workable compound that can be applied by either trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, greases, petroleum, salts, many acids and alkalis and most commonly met corrosive media. It does not shrink on curing, and is designed to be used when cured from below freezing point to 60°C. Its impact resistance, and mechanical strength is greater than that of concrete.

Key Features

- Very good adhesion to most construction materials.
- Hardens without shrinkage.
- High strength adhesive.
- Improves the working environment .
- Impermeable to liquids and water vapour
- Durable and hardwearing.
- Easy to apply.
- No primer needed.
- Excellent resistance to a wide range of chemicals:

EpoMortar SF[®] has excellent resistance to the following: most aqueous systems, sewage, urine, fresh water, sea water, diluted and concentrated alkalis, diluted acids, sulphur gases, mineral, vegetable and animal oils and fats, ammonia.



Application Instructions

Surface Preparation: All loose particles, laitance, dust and grease etc., must be removed prior to application of **EpoMortar SF[®]**. Concrete must be at least 4 - 6 weeks old, depending on climate, wirebrush, sand- or water-blasted or grind substrates.

Mixing: Use a low speed electric drill fitted with a paint mixer a wing type paddle. Material in industrial packing must be stirred well before proportioning and mixing. Avoid aeration while mixing.

Application: When using a **iFlex PVC[®]** adhesive, apply the mixed adhesive to the surfaces with a trowel, spatula or by glove-protected hand. Immediately after mixing, pour the **EpoMortar SF[®]** into the Body. Spread the mixed material using a Solid tool.

Where a very deep recess is to be filled, it may be necessary to build up in layers. Repairs may be camouflaged if required by covering surface with cement powder before full cure is affected. When applying as a repair mortar, take into account any form work that may be required. On vertical surfaces it is non-sag up to 10 mm thickness. On damp surfaces, ensure that the material is well rubbed in. Max. layer thickness: 30 mm.

EpoMortar SF[®] will cure at temperatures as low as 5°C, although at low temperatures cure is retarded.

EpoMortar SF[®]

Technical Properties & Standards

Density	1.65 kg/l (A+B)	
	10 days at +10-20°C	
Compressive Strength - 1day	+20 °C	60-70 N/mm ²
	+30 °C	40-45 N/mm ²
	+50 °C	35-45 N/mm ²
Tensile strength in flexure	after 10 days at +10-20°C	
	30 - 40 N/mm ²	
Tensile strength	after 10 days at +10-20°C	
	15 - 20 N/mm ²	
Shear Strength	after 10 days at +10-20°C	
	Bond strength to concrete	3.5 N/mm ²
	Bond strength to steel	~15 N/mm ²
Modulus of Elasticity in Tension	4'300 N/mm ² (Static)	
Coefficient of Thermal Expansion	50 x 10 ⁻⁶ per °C (temp. range: -20 °C to +40 °C)	
Bond to concrete	In excess of the cohesive strength of concrete	

Application Properties

Mixing Ratio	A : B = 2:1 (in weight)
Pot Life	30°C :20 min.
	20°C :40 min.

Product Information

Colour	Light gray
Base	Epoxy Resin
Packaging	1kg (A+B) & 5kg (A+B)

EpoMortar SF[®]

Cleaning Tools

Tools and equipment should be cleaned, immediately after use, with **iSolv S40[®]**. After the hardening, the product can be removed only by mechanical means.

Quality

All products manufactured by iChemEG, or imported from iChemEG affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems.

Storage

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf Life

Shelf life is up to 12 months when stored as per recommendations.

Health and safety

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. Observe warnings on packing. Ecology In liquid state components (A+B) contaminate water. Do not dispose of into water or soil but according to local regulations.

Legal Notes





The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose

Epoxy Resin Adhesive

EpoMortar SF[®]



Our Previous Submittals & Approvals

Material Submittal- MS

Project Name: Badr Central Hospital **Main Contractor:** Military Production

Employer: Ministry of Health **Contractor's Consultant:** ECG

Consultant: Integrated Construction **Subcontractor:** ASC for Construction and Engineering

From:	ASC for Construction and Engineering	Date:	Monday, October 30, 2023
To:	Integrated Construction	Time:	
Ref.:	Badr-ARC-MS-060	Rev.:	000
		Subject:	EpoMortar SF®

Discipline	CV	ARC	MECH.	ELEC.	CALC.	Other	Sample	Yes	No

Issued For	Approval	Information	Coordination	Other
------------	----------	-------------	--------------	-------

Item No.	Description of specified item	Spec/BOQ ref	Manufacturer	Supplier	Approval Code
1	EpoMortar SF® (Epoxy Resin Adhesive)		Chem		


This is to certify all items submitted here, have been checked by the contractor, are in conformance with the requirements of the contract documents, except as noted below:

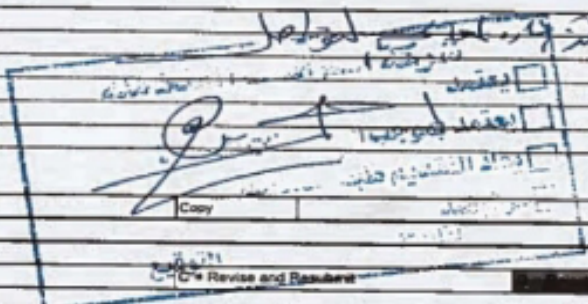
Notes:

Attachments:

Data Sheet

ICC Comments / Ministry of Health:





Consultant Authorized Representative

Distribution: Original Copy



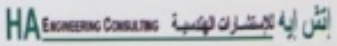
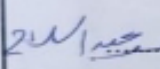
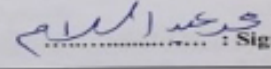
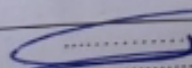
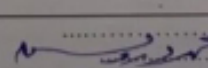
Action Code Legend:

A = Approved B = Approved as Noted

Note: C = Revise and Resubmit

*Production, supply and / or execution shall proceed only when action code is A / or B.

*Regarding action code C, resubmission shall be within the time set in the contract.

					
طلب اعتماد مواد Material Approval Request					
				التاريخ :- 03/06/2024	
				رقم الطلب :- MCC-MUST-MAR-AR-097-00	
				مبنى :- جامعة مصر للعلوم والتكنولوجيا	
<input checked="" type="checkbox"/> Other / اخرى الشركة / الموفرة ICHEM		<input type="checkbox"/> As Built Dwg المرفقات : DATA SHEET + عينة		<input checked="" type="checkbox"/> مواصفات فنية Specs ميكانيكا <input type="checkbox"/>	
				<input type="checkbox"/> رسومات تشغيل work shop معماري <input checked="" type="checkbox"/>	
				<input type="checkbox"/> إنشائي <input type="checkbox"/>	
Material Approval Request					
SR					CODE
1	Backer Rod (iFlex BR)				B
2	EpoMortar SF				B
3	Flexseal STP Seal				B
4	* ملاحظة: تقديم العينات رطل كل عنصر كامل				
5					
MUST CONSTRUCTION COMPANY					المقاول/Contractor
الاسم/Name : م / هشام فؤاد التوقيع/Signature : 		مدير المشروع/المقاول Project Manager		الاسم/Name : عبد السلام التوقيع/Signature : 	
				مهتمس الجودة/المقاول Quality Engineer	
نتيجة الفحص / Result					
التقييم / Evaluation				تاريخ الاستلام / Date :Receive	
مرفوض / Rejected <input type="checkbox"/>	يعاد التقديم / Resubmit C <input type="checkbox"/>	معتمد بشروط / Approved as noted B <input type="checkbox"/>	معتمد / Approved A <input type="checkbox"/>	المستلم / Receiver	
قرار و التوصيات / Recommendation					
لسداع مع الاستعمال طبقاً لمواصفات الشركة المنتجة مع الالتزام بكتابة المشتريات الخاصة بحمل كلفه كامل بالذبح قبل التسليم					
Project Consultant/المستشاري					
الاسم/Name : التوقيع/Signature :  التاريخ/Date : 03/06/2024		مدير المشروع Project Manager		الاسم/Name : التوقيع/Signature :  التاريخ/Date :	
				الإستشاري Consultant	

HYDE PARK PROJECT - NEW CAIRO					Submittal Transmittal No.	Rev.		
SUBMITTAL TRANSMITTAL					MTR-ARCH			
MTR-ARCH					CC-CP147-MTR-ARCH-0088	1		
TRANSMISSION OF DRAWINGS, DOCUMENTS, MATERIALS, ETC.					Date:	25-Sep-2024		
Contract Name : Civic Center			Contract No.: CP147		SUBMITTED FOR			
From: Redcon Spain			Cluster No.: Civic Center		APPROVAL			
To: Mimar Egypt Engineering Consultant					YOUR INFORMATION			
WE ARE SENDING HEREWITH / UNDER SEPARATE COVER, THE DRAWING DOCUMENTS / SAMPLES LISTED BELOW. (DELETE AS NECESSARY)					OTHERS			
					ACTION			
					APPROVED			
					APPROVED AS NOTED			
					REVISE AND RESUBMIT			
					REJECTED			
					FOR INFORMATION			
QTY	ITEM REF	REV	DOCUMENT TYPE	COPIES	DESCRIPTION	* TYPE	CODE	Action *
			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 Code and Remarks, and return to Contractor</p> <p>REMARKS:</p> <p>ENGINEER'S COMMENTS: * Technically approved, contractor to follow manufacturer's recommendation.</p> <p>→ All required details of fixation to be submitted.</p>								
COPIES TO:					FOR ENGINEER			
EMPLOYER'S COMMENTS (IF REQUIRED):					FOR EMPLOYER		DATE:	
COPIES TO:					FOR EMPLOYER		DATE:	
<p>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. This office is only for review of general performance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for coordinating and executing all quantities and dimensions including fabrication processes and techniques of construction; coordinate his work with that of other trades, and perform his work in a safe and satisfactory manner.</p> <p>TYPE : 03 Shop Drawing CA Calculation SM Sample MC Method Statement QT Quotation TF Temporary Facilities</p> <p>OT Other CT Certificates TT Test Results MH Mock-up MD Manufacturer's Data</p>								

