

EpoMortar SF[®]

Description

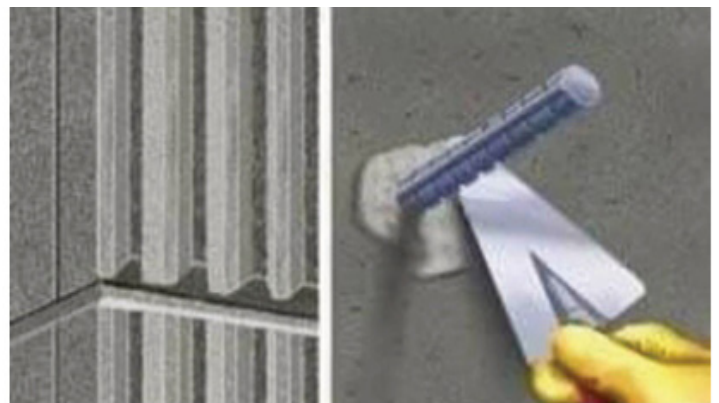
EpoMortar SF[®] is a non slumping epoxy bedding compound and adhesive. It is a two pack, fine aggregate filled, fast curing material, ideal for a variety of bedding, gap filling and concrete repair applications.

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.

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Technical Properties & Standards

Density	1.65 kg/l (A+B)	
Compressive Strength - 1day	10 days at +10-20°C	
	+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)

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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.

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