

EpoBond SF®



Description

EpoBond SF® adhesive is a medium – viscosity 2 components product based on modified.

Key Features

- **EpoBond SF®** can be applied directly to wet surfaces as it does not require previous priming due to good penetration.
- High bonding properties to cementitious surfaces.
- Easy to apply, fluid, allows the application on horizontal and vertical surfaces (except under beams and slabs).
- Solvent Free.
- Fast curing.
- Excellent adherence on concrete, mortar, wood, stone, ceramic, metal and other construction substrates.
- Waterproof (after curing).
- High mechanical properties (tensile and compressive strengths).
- High chemical resistance (oils, grease, etc).

Uses

- Bonding new concrete on old concrete structures
- Structural support fastening.
- Bonding precast structural elements Construction joints (bonding).
- Fastening of elements, ex. roof drainage pipes and others, horizontally.
- Edges repairs, cracks and superficial imperfections on architectural concrete structure.



Application Instructions

Surface Preparation: Surface preparation plays a vital role in determining the durability of any epoxy coating. Therefore proper care should be taken while executing it. The surface should be free from dust, dirt, rust, curing compound, oil etc. We recommend captive shot blasting as the most suitable preparation.

Steel: Steel surfaces must be cleaned and prepared thoroughly to the acceptable quality standard equivalent to Sa 2.5 i.e. normally by blast cleaning and then re-moving any dust by vacuum. Avoid dew point conditions.

Mixing & Application: Mix part A (resin) for one minute using a slow speed drill fitted with a paddle. then add part B into part A and mix thoroughly for 2-3 minutes to achieve uniform consistency. Avoid air entrapment at all times to a minimum while mixing. Do not part mix the pre batched units. When mixing large quantities of units, mix only the required quantity of units that can be used within their potlife. Apply immediately after mixing.

Apply the mixed **EpoBond SF®** to the prepared surface by brush, roller, spray or with a trowel, and ensure uniform and complete coverage. On hardened concrete substrates mechanically prepared to receive fresh concrete, always apply by brush and work the material well into the substrate. Place the fresh concrete whilst the EpoBond SF® layer is still 'tacky'. If the material becomes glossy and loses tackiness, apply a fresh coat with additional **EpoBond SF®** and proceed.

EpoBond SF[®]

Technical Properties & Standards

Density	~1,5 kg/l (A+B) (23°C)	
Tensile strength in flexure	7 days: ~ 50 MPa	(ASTM C 580)
Tensile adhesion strength		
Concrete	18.4 MPa (14 days)	(ASTM C 882)
Concrete	3.8 MPa (7 days) - concrete fail	Pull Off Test
Steel	~ 12 MPa (3 days)	Pull Off Test
Steel bar anchoring pull-of strength in concrete class H25 (Fe A63 - 42H, diam. 12 mm, L=180 mm): >14.000kgf.		
Service temperature	Min. +10° C / Max. +40° C	

Application Properties

Mixing ratio	A : B = 1:2 (in weight)
Consumption	(A + B): 1.5 kg/m ² per mm of thickness
Pot Life	1 kg: 45 minutes (23°C)
Ambient air temperature	Min. +10° C / Max. +40° C
Curing time	Initial curing time: 24 hours Final curing time: 7 days

Product Information

Colour	Light gray
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 described in the ISO 9001:2008, standards.

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

