

## TECHNICAL DATA SHEET

### CONFIX EC

#### **3-Part Cement and Epoxy Combination Mortar for Self-smoothing Floor Screed of 1.5 to 3mm Thickness**

##### PRODUCT DESCRIPTION

**CONFIX EC** is a three-part, epoxy-modified cementitious, fine-textured mortar for self-smoothing floor screeds in thin layers of 1.5 to 3 mm. It is easy and quick to apply and forms an ideal substrate for the application of self-leveling coatings.

**CONFIX EC** may be coated after just 24 hours with epoxy or polyurethane systems, even if applied on concrete, which is not fully cured, damp, or subject to rising capillary dampness. It impedes and prevents the formation of blisters and detachment of successive resin coatings.

**CONFIX EC** is a solvent-free product supplied in pre-dosed packaging and is easy to apply to form a flat, smooth finish.

The final performance characteristics of **CONFIX EC** guarantee an excellent bond with hardened concrete, even when not fully cured and still damp.

The product is also particularly strong and has good resistance to chemicals in general. **CONFIX EC** offers excellent resistance to water and oil and resists attacks from de-icing salts. It has improved chemical resistance over plain concrete in aggressive environments but is not designed as chemical protection.

##### CUSTOMER BENEFITS

- Rapid, easy application to form a smooth finish, for internal and external use.
- Protective action against attack from de-icing salts.
- May be coated after just 24 hours with epoxy or polyurethane resin
- Excellent adhesion to concrete
- Promote good adhesion with successive resin coatings.
- Reduce the risk of blisters and/or detachment of successive waterproof coatings, even if applied on damp substrates.
- Excellent mechanical strength.
- Solvent-free.
- Good leveling properties

##### RECOMMENDED FOR:

As a temporary moisture barrier (min. 2 mm thick) allowing the application of epoxy, polyurethane, and resin floors requiring dry substrates, over high moisture content substrate, even green concrete, for a lasting solution.

##### AS A SELF-SMOOTHING SCREED FOR:

- Leveling or patching horizontal concrete substrate
- Leveling layer on rough concrete flooring or concrete flooring roughened by grinding
- Smoothing over damp concrete surfaces before applying epoxy or polyurethane coatings.
- Thin repair layers on the surface of damp substrates that do not require a particularly attractive finish
- Repair and maintenance work on monolithic or steam-cured concrete floors.

##### INSTRUCTION FOR USE

###### **SURFACE PREPARATION**

Concrete surfaces must be free of dirt, paint, oil grease, loose materials, and other contaminants. On oil surfaces, washing with soap and water or acid etching (10% muriatic acid or hydrochloric acid) is recommended. Damp the surface before application of **CONFIX EC**.

###### **MIXING:**

Pour Part A and Part B into a suitable mixing container. Mix well until uniform color is obtained. Add gradually Part C to the solution while stirring with a slow-speed electric mixer. Mix thoroughly until a uniform mix has been achieved with no lumps.

Mix only full units of A+B+C components. Do not mix smaller amounts. Do not add water.

###### **APPLICATION**

After thorough blending of the mixture has been done, place mixed **CONFIX EC** onto the primed substrate and spread evenly to the required thickness uniformly with a rubber or metal trowel or spatula and immediately roll with a spike roller to remove entrapped air to obtain an even thickness layer. Workability can be adjusted by varying slightly the amount of Part C.

Do not use additional water, which would disturb the surface finish and cause discoloration.

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Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be removed mechanically.

##### LIMITATIONS

If **CONFIX EC** is used as TMB (Temporary Moisture Barrier), a layer of a minimum of 2 mm thick must be applied. Always ensure good ventilation when using **CONFIX EC** in a confined space to remove excess moisture. Freshly applied **CONFIX EC** must be protected from damp, condensation, and water for at least 24 hours. Prevent premature drying by protecting from strong wind and do not expose to direct sunlight while fresh.

##### PRODUCT SPECIFICATION

Appearance	
Part A – resin	: Clear colorless liquid
Part B – hardener	: Light amber opaque liquid
Part C – filler	: Off-white aggregate powder
Finish Color	: Matte Light grey
Chemical Base	: Epoxy modified cementitious mortar
Density:	
Part A	: 1.16 kg/L
Part B	: 0.97 kg/L
Part C	: 1.67 kg/L
Part A+B+C mixed	: 1.64 kg/L
Pot-Life	: ~30 min.
Waiting Time:	
Can be walked on after	: 15hrs
Light Mechanical loading after	: 2days
Fully cured after	: 7 days

**Note:** Can be over coated with epoxy-based materials as soon as surface moisture content of **CONFIX EC** is less than 4%, however not earlier than 1day.

##### DRY MORTAR PROPERTIES

Compressive strength (14d)	: 7000 to 8000 psi
Adhesive tensile strength	: 300 psi
Flexural strength	: 1800 psi

##### COVERAGE

Recommended coverage:

For self-smoothing screed:

1.64 kg/m<sup>2</sup> at 1mm thickness

3.28 kg/m<sup>2</sup> at 2mm thickness

For extended mortar mix:

1.80 kg/m<sup>2</sup> at 1mm thickness

**Note:** The coverage rates provided above are for guidance purposes only. Actual usage may vary depending on the specific substrate conditions and application methods.

##### PACKAGING

**CONFIX EC** is supplied in 3 components consisting of base, hardener, and filler in a 16kg set.

##### STORAGE AND HANDLING

**CONFIX EC** has a shelf life of 24 months if stored in a dry cool place unopened. Store in a dry condition away from sources of heat and naked flames. If stored at high temperatures the shelf life will be reduced.

##### PRECAUTIONS

###### HEALTH AND SAFETY

If skin contact occurs, wash with soap and water. If skin irritation persists, seek medical attention. If material contacts the eyes, flush thoroughly with water and get medical attention immediately.

**CONFIX EC** is non-flammable.

Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

##### WARRANTY AND DISCLAIMERS

The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.