

CORECRETE EP

Formerly known as **FAIRBOND EP**

Epoxy resin concrete bonding agent

BENEFITS

- Excellent adhesion
- Increases bond strength
- Very good chemical resistance
- Easy to apply
- Cures even on damp surfaces
- Ensures a perfect waterproof bond
- Long workable time
- Moisture insensitive for long-term durability
- Excellent adhesion and impact resistance
- Acts as a barrier coat to the migration of chloride ions from the host concrete

DESCRIPTION

CORECRETE EP is a two-component, solvent-free, high-performance epoxy bonding agent formulated especially for use with concrete. **CORECRETE EP** is particularly advantageous on dry and slightly damp surfaces and can be used to bond old concrete to fresh concrete or to bond two sections of old concrete. It conforms to ASTM C 881: Type II, Grade 2, Class B & C.

USES

CORECRETE EP is used for bonding renders, screeds, or fresh concrete to existing concrete, for bonding precast concrete sections, as a primer for an epoxy coating, and for screeds.

PROPERTIES

Color	Biscuit color / Grey Color
Density	~1.6 g/cc
Usable Life at 30°C	~60 minutes
Application Temperature	5 to 40°C
Compressive Strength	>55 N/mm ² @ 7 days (ASTM D695)
Tensile Strength	>14 N/mm ² @ 7 days (ASTM D638)
Bond Strength	>10.3 N/mm ² @ 14 days (ASTM C 882) (Moist Cure)

APPLICATION

Surface Preparation: The substrate must be sound, clean, and free from laitance and all contaminants, such as oils and greases.

Mixing: **CORECRETE EP** comprises two components: the resin **BASE** and the **HARDENER**, which are supplied pre-measured in the correct proportions. When ready for application, pour the **HARDENER** into the container with the **BASE** and mix well. Both components should be thoroughly mixed, preferably using a slow-speed mechanical stirrer (e.g., electric drill with stirrer attachment) until a uniform color is obtained.

Application: (A) For bonding concrete sections: Apply an even coating of **CORECRETE EP** to both prepared surfaces using a brush or roller. Ensure that both surfaces are saturated, then bring the sections together under light pressure. Remove any resin that extrudes from the joint. Protect the area from agitation until the resin has set.

(B) For bonding screeds, renders, or fresh concrete to existing concrete surfaces: Apply an even coating of **CORECRETE EP** to the prepared old concrete surface using a brush or roller. Place the fresh concrete or mortar on top of the **CORECRETE EP** layer after 15 minutes and within 5 hours at 30°C.

Cleaning: Tools should be cleaned immediately after use with **SAFECORE TOOL CLEANER**.

PACKING & COVERAGE

CORECRETE EP is supplied in 1 kg and 5 kg packs. Coverage will vary depending on the porosity and texture of the surface and the ambient temperature, but as a general guide, allow 0.3 kg per m².

SHELF LIFE & STORAGE

CORECRETE EP has a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 35°C. The material must be kept in a shaded area and away from direct sunlight. Storage at higher temperatures or high humidity may reduce shelf life.

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HEALTH & SAFETY

Cleanliness in handling resins is essential to prevent skin irritation. Please refer to the **CORECRETE RESINS** "Safe Handling Guide" for detailed recommendations.

SPECIFICATION

Providing and applying **CORECRETE EP** epoxy resin concrete bonding agent manufactured under compliance with ISO 9001, ISO 14001, and ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK. It is a two-component epoxy bonding agent conforming to ASTM C 881, with a bond strength $>10.3 \text{ N/mm}^2$ and compressive strength $>55 \text{ N/mm}^2$ @ 28 days, with coverage of 0.3 kg per m^2 , used in accordance with the guidelines of CHEMCORE.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK.

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our quality control laboratory and technical experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

OUR RANGE OF PRODUCTS

**CONCRETE ADMIXTURES
WATERPROOFING SYSTEMS
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INDUSTRIAL FLOOR SURFACES**

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