

E4E-Ultra Fix

Ultra-Low-Viscosity Aromatic
Polyurethane Repair Product



Technical Data Sheet

Description

The E4E-Ultra Fix is a two-component aromatic polyurethane crack repair system providing ultra fast curing. This product has been designed to repair concrete cracks and small holes on horizontal surfaces. It can also be used for below-grade repairs and at very low temperature levels.

Uses

The E4E-Ultra Fix is suited for several applications:

- + Repairing cracks in concrete
- + Filling small holes
- + Repair below-grade structures
- + Cold temperature applications

Advantages

- + Extremely fast curing, can be grinded after 15-20 minutes
- + Indoor/outdoor applications
- + Cures at very low temperature
- + Low viscosity allows for optimal concrete penetration
- + Possible to mix with silica sand, quartz, Extender T or silica to build up viscosity

Application Data

Mix Ratio	1A:1B
Packaging	2 US gallon kits (2 x 3,78L)
Color	Milky/Yellowish
Shelf Life	Six months, in original unopened factory pails under normal storage conditions
Application Temperature	Sub 0°C / 32°F, Max 30°C / 86°F
Cure Time	22°C / 72°F and 50% Rel. Hum.
Working time	4 min
Tack Free	15 min
Dry Through	20 min
Foot Traffic	20 min
Full Cure	24 h

Technical Properties

Solids Content	60 %
Viscosity (A&B)	100 cps
VOC Content	416 g/l

Surface Preparation

Concrete should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion. Concrete should be cured at least 28 days before applying the coating system.

Proper testing procedures should be practiced with regards to soil acidity and moisture vapor transmission. Take a pH reading to ensure concrete is neutral (a reading between 5 and 9 is acceptable). Use a Tramex® CME / CMExpert to measure the moisture content of the concrete slab. Moisture content must be below 4% before applying the product. It is necessary to take several measurements at various places on the slab. If the reading is higher than 4%, steps will be required to neutralize the soil moisture. The first thing to do is to make sure that the floor is completely dry before application. Floors with higher results can receive a MVB moisture mitigation.

Surface must be shot blasted or prepared with an equivalent mechanical means in line with CSP 3 or more depending on the application. Ensure the surface is free of contaminants, and the pores are open to allow the product to penetrate.

Mixing

Mix one part of A and one part of B together in a separate container. The surface must be clean and free of any outside particles. Mix thoroughly using a drill. Mix only the necessary quantity to be used according to the specified pot life / working time. If mixed with aggregates, use a mixing ratio that does not exceed 3:1 (aggregates to E4E-Ultra Fix).

Application

This product will cure at Sub 0°C / 32°F. If a heated floor is installed, ensure that the system is turned off during application and for the full duration of the cure. The product has been designed to adhere to concrete surfaces.

The product needs to be poured in repair areas. Make sure to seal the surface with E4E-Ultra Fix prior pouring the product. Versions with aggregates can be applied using a trowel and/or a scrapper. Proper testing should be conducted prior to application. Contact a E4E sales representative prior to using this product.

Recoat

Recoat with a base coat within 60 minutes after the application of the E4E-Ultra Fix. Do not recoat with an epoxy unless the E4E-Ultra Fix is ground and the repair area is very small (½-1 inch diameter or less).

Limitations

Requires a dry substrate. Moisture content of the substrate must be measured with a Tramex® CME / CMExpert at must be below 4% before applying the product. This product should not be applied to concrete substrates that show high levels of moisture/humidity unless a moisture MVB moisture mitigation system is used. Do not recoat with epoxy unless the product is ground and the repair area is very small (½-1 inch diameter or less). It is also recommended to do proper testing if a nonconventional installation is considered. Drying time will be faster in a hot and/or humid environment. Conversely, the drying time will be longer in a cold and/or dry environment. Keeping the product stored at room temperature.

E4E stands behind the quality of its products. However, E4E cannot guarantee results since E4E has no control over surface preparation, operating conditions and application procedures. Clients are solely responsible to test E4E's products to determine if they perform as expected. To meet our strict requirements, we are continuously testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data included in this reference document may not be up to date as of the date of reference. Contact E4E for further information regarding the limitations of this product.