E4E-GEL PATCH

VOC-Free, High Performance Crack Filler Epoxy

Description

E4E-GEL PATCH is a 100% solids two-component (1A:1B) gel epoxy crack repair which is virtually VOC-free. The product is easy to use and can be applied on horizontal and vertical surfaces. It also offers a long pot life and working time but cures very quickly allowing the installation of the base coat or primer minutes after the application of the EPOXY CRACK FILLER. This product possesses superior mechanical and chemical properties suited for residential, commercial and industrial applications. The formulation is based on a high-performance cycloaliphatic polyamine technology displaying outstanding properties.

Uses

E4E-GEL PATCH is suited for the most demanding applications:

+ Industrial uses
+ Manufacturing facilities and warehouses
+ Commercial centers
+ Office buildings
+ Retail stores
+ Garages
+ Food/beverage processing and preparation plants
+ Public facilities including hospitals and schools
+ Pharmaceutical companies
+ Other commercial uses

Advantages

+ Environment friendly, 100% solids and VOC-free
+ Virtually odor free
+ Fast curing
+ Compatible with MOST epoxies.
+ Can be used on vertical surfaces
+ Recoat window of 24 hours
+ Maintain its thixotropy even during exothermic reaction
+ Easy application with long pot life and working time
+ Potential for LEED eligibility

Application Data

Mix Ratio	1A:1B
Packaging	2 US gallon kits (2 x 3,78L)
Color	Part A: white, Part B: black, A&B: light grey
Shelf Life	One year, in original unopened factory pails under normal storage conditions

Application Temperature	Min 10°C / 50°F, Max 30°C / 86°F
Cure Time	**22°C / 72°F and 50% Rel. Hum.**
Working time	30 min
Tack Free	2 h
Recoat	60 min
Dry Through	2 h 30
Foot Traffic	2 h 30
Full Cure	24 h

Technical Properties

Solids Content	100%
Viscosity (A&B)	75000 cps
VOC Content	0 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. If the concrete slab has been installed within 28 days, the American Resins-MVB moisture mitigation system can be considered (refer to the American Resins MVB technical data sheet for additional details).

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 the American Resins- 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.

If this product is applied over an epoxy system that has been installed for more than 24 hours, the surface must first be completely sanded and properly cleaned with a vacuum cleaner and solvent before applying a layer of the product. This preparation is necessary to ensure proper adhesion. Conduct adhesion tests if there is a doubt about surface preparation.

Mixing

Mix one part of A (white resin) and one part of B (black resin) together on a tray using a trowel or a scrapper until you get a homogenous light grey mix. The surface must be clean and free of any outside particle. Mix only the necessary quantity to be used according to the specified pot life / working time.

Application

Apply only when air and floor temperature is between 10°C / 50°F and 30°C / 86°F and the relative humidity less than 85%. 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. Once the surface has been properly prepared, apply the product with a trowel or a scrapper. E4E-GEL PATCH is a gel designed to be applied in thick layers to fill gaps or holes in concrete floors or walls. Proper testing should be conducted prior to application.

Recoat

We recommend waiting 60 minutes after the application of E4E-GEL PATCH to install the primer or base coat. Do not apply these products without sanding, if the E4E-GEL PATCH CRACK FILLER EPOXY has been installed for more than 24 hours. Dust must be completely removed with a vacuum cleaner. Contact the manufacturer for more details.

Cleaning

Excess material from Parts A and B should be mixed together to allow it to harden. Cured material can be removed without restriction. Any unhardened liquid must be stored in a suitable, airtight container and then disposed of in accordance with applicable provincial and federal regulations.

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 MVB moisture mitigation system is used. Although this product may be applied in a wide range of thickness, limitations may apply when taking into consideration curing time. Everything else being equal, thicker is the film, quicker is the curing time. Drying time will be faster in a hot environment. Conversely, the drying time will be longer in a cold environment and the appearance of the surface may be affected. Do not clean the finished surface during the week following installation. Keep the product stored at room temperature to ensure consistent results. Not suited for exterior applications.

Epoxy Depot stands behind the quality of its products. However, Epoxy Depot cannot guarantee results since Epoxy Depot has no control over surface preparation, operating conditions and application procedures. Clients are solely responsible to test Epoxy Depot'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 Epoxy Depot for further information regarding the limitations of this product.

Available Colors

Light grey

Refer to the most recent Material Safety Data Sheet prior using this product.