

CCS EPOXY REPAIR KIT

March 2022

DESCRIPTION

The CCS Epoxy Repair Kit is a low viscosity epoxy resin designed to be blended with sand or cement to produce an epoxy mortar. The finished mortar is primarily designed for the application of a 3–5mm mortar bed to concrete floors.

RECOMMENDED USES

The CCS Epoxy Repair Kit is suitable for, and widely used on concrete, natural stone and tiles throughout the food and beverage industry – including the fish, meat and dairy industries, bakeries and wineries.

PACKAGING

The CCS Epoxy Repair Kit is made up of:

- Part A (Resin): 1 litre
- Part B (Hardener): 0.5 litres

COVERAGE RATES

- Scratch Coat
 - 1m² – 2m² per litre (depending on texture of surface)
- Trowel Coat
 - 1.5 litres per m² for 6mm topping
- Silica Sand Requirement
 - Around 10kg per m² for 6mm topping
- Crack Filling
 - Will vary according to depth and width of crack

SURFACE PREPARATION

The existing surface must be free of fats, oils, curing agents, surface laitance and other recognizable contaminants. Shot blasting, diamond grinding, acid washing and caustic degreasing are acceptable techniques.

The finished prepared surface must have a tensile shear strength capable of absorbing the shear stresses applied by the epoxy as a result of thermal movements.

PREPARATION

CCS Epoxy Repair Kit Topping

1. Both the Epoxy Resin and Epoxy Hardener are mixed at a rate of 2:1 by volume. Add sand or cement if required.
2. The mixed material is then applied to the floor using a trowel or scraper.
3. This wet mix is then covered with dry sand or coloured quartz aggregate to a beach finish (i.e. excess sand so that no resin comes through to the surface).
4. An even spreading technique is of highest importance.
5. When cured, the excess sand is removed by brooming or vacuum cleaning.

DRYING TIME

We recommend a minimum of 12 hours drying time.

CHEMICAL RESISTANCE

Full chemical resistance develops only after seven days cure at 20°C. Although the floor appears to be completely cured from a mechanical point of view, Epoxy Repair has excellent resistance to a wide range of chemicals such as dilute mineral acids, dilute alkalis, petroleum oils and solvents, vegetable and animal fats, ammonia and chlorine based cleaning fluids.

Elevated temperatures (60°C +) can have serious influences and special consideration should be given.

COLOUR

Pigments may be added to epoxy systems.

However, the choice of pigment can severely affect the ultimate performance of the epoxy (i.e. lost colour, blemishing and so on). Hence, testing is highly recommended.

CURING

Epoxy systems are ideally applied between 15°C and 30°C. Higher temperatures make the systems difficult to use due to a shorter pot life.

Lower temperatures significantly increase the viscosity of the applied mix and may no longer be ideal in application.

Furthermore, care needs to be taken not to subject a newly laid floor to water damage before 75% of the cure has been achieved. Occasionally, a newly laid floor may show a 'whitening' of the surface as a result of low temperature application and high surface humidity.

STORAGE

Store between 10°C and 30°C away from direct sunlight. Keep away from all sources of ignition.

Shelf life is up to 12 months in original unopened container. Partly used containers must be sealed tight when not in use.

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USER RESPONSIBILITY-PRODUCT SELECTION AND COMPATIBILITY

CCS warrant that their manufactured product is free from defects as well as being suitable for the purpose for which it is intended as long as it has been used and applied in accordance with the most current Technical Data Sheet from CCS.

In practice, differences in materials, substrates and actual site conditions require an assessment of product suitability for the intended purpose.

The user is responsible for checking the suitability of products for their intended purpose.

Further, combinations of products that form a total system are often required to service particular applications. Due to the multitude of products available to service an application, only products from the CCS system of products must be used in combination with this product to ensure it will be suitable for the purpose for which it is intended.

The product must also not be mixed or used in combination with any other product which is not a product supplied by CCS

For further information consult the Safety Data Sheet and read the product label carefully before use.

Safety Data Sheets are available from www.concretocoloursystems.com.au or by calling 1800 077 744.

Please note: The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses. To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury causes by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear. Service or advice given by our staff should not amount to responsibility for the project - since the owner or their contractor (and no River Sands), is responsible for the procedures relating to the application of the product.