

High performance epoxy grout for bedding tiles in heavy duty conditions

Product Description

A two component epoxy resin based adhesive and grouting system for pavements, ceramic and acid resistant tiles, in medium and heavy duty corrosive and hygienic environments.

Advantages

- Non-absorbent easy to clean and hygienic in service.
- Excellent resistance to a wide range of chemicals and acids.
- Impermeable: resistant to staining and absorption when permanently immersed in water.
- Will not support bacterial growth in kitchens, swimming pools etc.
- Non-tainting and non-toxic: can be used in most areas where drink and foodstuffs are processed.
- Excellent adhesion to most commonly encountered building substrates and materials.
- Water miscible: tools and equipment can be cleaned with water and uncured material can be wiped off tiles with a wet cloth following grouting
- Excellent proven performance.
- Suitable for vertical and horizontal applications in interior and exterior locations.

Packaging

Rayston Tile Epoxy is available in 4KG packs.

Typical Applications

- Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries.
- Industrial kitchens and catering facilities.
- Electrical substations and plant rooms.
- Laboratories.
- Swimming pools and leisure facilities.
- Heavy duty workshops, garages and services facilities.
- Bottling plants and breweries.

Typical properties

Density	1600 kg/m ³
Pot life	60 mins at 20°C 45 mins at 30°C 30 mins at 40°C
Compressive strength (BS 6319 Part 2)	80 N/mm ²
Flexural strength (BS 6319 Part 3)	25 N/mm ²
Tensile strength	15 N/mm ²
Max. service temp	60°C

Application procedure

Bedding:

To the prepared surface apply a solid bed of adhesive to a minimum thickness of 3mm. Ensure that the size of the working area can be tiled within the pot life of the **Rayston Tile Epoxy**. On vertical applications the adhesive must be applied with a notched trowel to leave a ribbed bedding.

Tiling:

Tiles and pavements should be pressed firmly into place with a twisting motion until properly aligned and bedded. On vertical applications tiling should begin from the bottom upwards. Ensure that at least 75% of the tile back is in contact with the adhesive. A minimum width of 3mm must be left around tiles for grouting.

Curing

Good curing is essential for resin based materials to ensure specified performance. A minimum temperature of 10°C should be maintained during the curing period by the use of additional heating. If necessary. Installations using **Rayston Tile Epoxy** systems can be opened to foot traffic after approximately 24 hours at 20°C. Complete cure is achieved after 72 hours at 20°C.

Coverage

Coverage rates are dependent on the specified tile or pavement dimensions. A 150 x 150 x 20mm tile would require the following:

Bedding	5mm:	5ltrs/m ²
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For 150 x 150 x 4mm the coverage rate would reduce by 80%. All calculated usages assume constant thickness on a regular substrate. Failure to achieve the required surface will lead to additional material being used.

Watchpoint

Movement joints should be provided in accordance with normal practice. Refer to BS 5385.

Chemical resistance

Excellent resistance to most aqueous systems including sewage, urine, salt water, dilute acids, battery acids, alkalis, oils and fats.

Application

The application and use of **Rayston Tile Epoxy** should be in accordance with the relevant international tiling codes practice.

Preparation

Ensure all laitance and contaminants such as oil, grease and coating systems are removed by either mechanical wire brushing or grit blasting. The surface should be dry and any dust should be removed by an industrial vacuum. The surface should contain no more than 5% moisture and any major repairs in the form of damaged arrisses, cracks and honeycombing should be repaired with the appropriate Krypton repair system. Where minor blemishes like blowholes exist, these can be filled out simultaneously with the bedding adhesive when it is applied.

Prior to application, **Rayston Tile Epoxy** systems should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability and cure times for the mixed material. Ideally, at least 24 hours before mixing. **Rayston Tile Epoxy** systems should be maintained at 1 approximately 20°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperature. When temperatures exceed 30°C during application, working times may be reduced by as much as 50%.

Mixing

Rayston Tile Epoxy is of a heavy consistency and should be mechanically mixed.

Using a slow speed electric drill with a paddle attachment, pour the reactor (Part B) into the base tin (Part A) and mix for approximately 2 minutes or until a uniform consistency and colour is obtained.

Storage

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment. Shelf life. Is 12 months in unopened containers stored as above.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers after use. For further information, refer to material safety data sheet.