



Redflow EAG

Redflow EAG is a low viscosity epoxy resin system designed for free-flow grouting of anchor bolts and other steel fixings into concrete.

It can also be used for crack injection into concrete and for screed consolidation.

Available in both Standard and Fast Set grades.

Uses

- Can be used in applications where dynamic or mobile loads are encountered such as heavy crane and transporter rails.

- Redflow EAG has excellent chemical resistance and can therefore be used in conditions where chemical spillage may be encountered.

Description

Redflow EAG has two separate liquid epoxy components that should be thoroughly mixed prior to application. When cured the product is non-shrink and has excellent resistance to creep even under dynamic stresses. It can be used in gap widths from 0.5mm to 10 mm.

Properties

Appearance: light, clear yellow.

Density: 1.0 - 1.15 dep. on product grade.

Flash Point: >130°C

Typical Compressive Strengths at 20°C:

1 day: 55 N/mm²

3 days: 65 N/mm²

7 days: 80 N/mm²

Typical Tensile strength:

7 days: 26 N/mm²

Instructions for use

Preparation

All contact surfaces must be free from oil, grease, water as well as any other contaminants and loose materials. Concrete should be clean, dry and sound and any cracks, bolt holes or fixing pockets should be cleaned of dirt, dust and other loose materials.

Steel surfaces

All steel surfaces should be shot blasted free of rust and flaky mill scale.

Mixing

For the standard 4 litre kits of Redflow EAG: pour all the contents of the hardener pack into the base container. Stir thoroughly using a slow speed power drill and paddle until both components are mixed and a clear liquid is achieved. Bulk supply of Redflow EAG is available for use in calibrated in-line mixing and dosing equipment.



Placing

Continuous grout flow is essential to achieving the performance characteristics. Therefore ensure that sufficient Redflow EAG is available prior to starting the void filling.

Ensure that the material mixed can be placed before the initial gel time of the mixed resin. Failure to do this will result in inadequate placing and inferior performance.

Setting times

Air and surface temperatures as well as volume of resin in the container affect the time for which the material will remain flowable.

Typical values in minutes are:

10°C 50 minutes

20°C 20 minutes

30°C 10 minutes

For cold weather applications the Redflow EAG Fast Set grade may be advantageous. The completely cured grout is resistant to sub-zero temperatures and is suitable for use in ambient temperatures of up to 45°C.

Precautions:

Exotherm: Mixed epoxy resins will develop temperature during their curing period. This could result in heat generation and possible smoking if the material is unused and kept in bulk. Care should be taken to use all mixed materials within the stated potlife or provide a well ventilated place away from other materials until any exothermic reaction has taken place and the product can be disposed of properly.

For details on the Health and Safety aspects relating to this product please refer to the Material Safety Data Sheet.

Cleaning

All tools and equipment should be cleaned immediately after use with REDROCK Epoxy Cleaner.

Labour and environmental protection

Components in Redflow EAG are classified as hazardous. Please refer to the Material Safety data Sheet for advice on environmental issues, disposal and relevant PPE for the user.

Storage

Store away from heat and frost and out of direct sunlight. Redflow EAG has a shelf life of 12 months if kept in dry conditions at 20°C.

Packaging

Redflow EAG is supplied as a separate base and hardener compounds which when mixed yield 4 litres.

For larger applications or if used with calibrated in line mixing equipment, bulk supply of the base and hardener is available in 20 litre UN containers.

The above details have been compiled to the best of our knowledge on the basis of thorough tests and our practical experience of the product performance. However, due to the fact that Redrock has no direct control over where or how its products are used, Redrock offers no guarantees nor accepts any liabilities deriving from or in connection with its products nor with information given in this leaflet. Redrock products are sold subject to its standard terms and conditions, copies of which may be obtained on request or viewed on the website.

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