

Fosroc® Conbextra EP935

A free flowing, water displacing epoxy grout for underwater grouting applications

Uses

Free flowing grout where the mechanical properties of the hardened grout must be of the highest order. Conbextra EP935 is suitable for underwater grouting work and for the repair of water immersed concrete structures.

Advantages

- Excellent adhesion to water immersed concrete, masonry or brick surfaces
- High density ensures complete water displacement
- High compressive, tensile and flexural strengths
- Cures with negligible shrinkage
- Pre-measured components allow easy mixing, and free flowing properties ensure speed of application

Description

Conbextra EP935 is a two component, finely filled, low viscosity, epoxy resin grout. Its high density displaces water to enable high performance underwater suitability.

The components of Conbextra EP935 are supplied in the correct mix proportions designed for whole pack mixing so that flow and mechanical properties are consistent.

Technical support

Parchem offers a comprehensive range of high performance, high quality construction products. In addition, the company offers a technical support package to specifiers and contractors as well as technical advice from staff experienced in the construction industry.

Properties

Colour:	Base resin is black and the hardener is an amber liquid. When mixed correctly they produce a grey liquid
Mixing proportions by volume:	As supplied
Mixing proportions by weight:	7.5 base to 1 hardener
Mixed specific gravity:	Approx. 2.0
Minimum application temperature:	5°C
Pot life: at 20°C (1kg mix)	60 minutes
Note: pot life will be reduced when greater quantities than 1kg are mixed or when working temperatures are higher	
Compressive strength:	
24 hours	50 MPa
7 days	90 MPa

Note: Compressive strengths stated above were measured using cube samples. Test results obtained will vary if testing is carried out to an alternative standard or sample dimensions are used.

Specification clauses

Supplier specification

All grouting (specify details and areas of application) must be carried out using Conbextra EP935 manufactured by Parchem and applied strictly in accordance with the manufacturer's technical data sheet. Product to be installed by a recognised contractor nominated by the supplier.

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Application instructions

Surface preparation

For maximum adhesion, the substrate must be clean and free from any loose material. Sandblasting is recommended for optimum adhesion.

Mixing

Pour all the contents of the smaller hardener curing agent component Part B (amber liquid) into the larger resin component Part A (black) and mix thoroughly until an even grey colour is obtained. A low speed electric drill driving a large spiral mixer is required to enable rapid, thorough mixing.

Placing

Conbextra EP935 should be placed immediately after mixing to take full advantage of the limited pot life (working life). Conbextra EP935 can be poured to displace water.

Conbextra EP935 can be placed in thicknesses from 12 mm up to 30 mm in a single pour when used as an underplate grout. Where the grouting gap beneath the base plate exceeds the maximum thickness allowed, then the grout can be filled / bulked out with Conbextra Grout Aggregate to minimise exotherm heat build up.

Filling / bulking out of the grout should not exceed a ratio of 2:1 grout to aggregate. The addition of aggregate will change the characteristics of the grout.

Note: because ALL epoxy resins shrink during the time between mixing and solidification, it is necessary to provide a small reservoir (2 - 3%) of liquid to supply the volume lost.

This reservoir should be no longer in section than the section being supplied, so that exothermic temperature rise is lower in the reservoir and the reserve liquid solidifies later than the body of the casing.

Where Conbextra EP935 is used for bolt and anchor grouting, the holes into which the bolts or anchors are to be grouted must be clean and thoroughly flushed with clean water. Headed bolts or anchors and deformed bars are to be preferred over plain bars. This will ensure an effective bond at the bolt/epoxy interface.

Please refer to the Conbextra Epoxy Grouts Application Guide for further information. This is available from the website or your local Parchem branch.

Cleaning

All tools and equipment should be cleaned immediately after use with Solvent 10 before hardening of the epoxy. Hardened material can only be removed mechanically.

Estimating

Conbextra EP935 is supplied in 15 kg (8.4 litre) two component, pre-weighed packs.

Storage

Conbextra EP935 has a shelf life of at least 12 months when stored in a dry, cool environment (below 35°C) in unopened containers.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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