

TECHNICAL DATA SHEET

D31 1

UNDERWATER CURING EPOXY FLUID GROUT

V2-31/03/2024

DESCRIPTION

D311 Underwater Curing Epoxy Fluid Grout is a 2 component, non-shrink, high strength, fluid grout designed for under water or wet conditions. Based on a hydrophobic epoxy resin system it has the unique ability to displace water to ensure good adhesion.

PROPERTIES

- Compressive Strength:
 - 50mPa after 48 hrs @ 25°C
 - 107 mPa after 7 days @ 25°C
- Bond Strength: Concrete Fails
- Self-Levelling
- Pourable
- Moisture Tolerant

RECOMMENDED AREAS FOR USE

- Machine Bedding
- Crusher Backing
- Fixing bolts and anchors into concrete
- Levelling and fixing rail chairs and lugs
- A high strength, pourable, gap filling compound
- A high strength, self-levelling floor

COLOUR	: Grey
Nº. OF COMPONENTS	: 2
MIXING RATIO (WEIGHT)	: 10:1
CONSISTENCY	: Fluid Grout
VOLUME SOLIDS	: 100%
MIXED DENSITY	: 2.07
PRACTICAL SPREAD RATES	: 1m ² /l
POT LIFE @ 25°C	: 1 hr
HARD DRY @ 25°C	: 8 hrs
PRACTICAL CURE @ 25°C	: 24 hrs
FULL CURE	: 7 days
APPLICATION TEMPERATURE	: 10 to 40°C
OPERATING TEMPERATURE	: -20°C to +60°C
CLEANING EQUIPMENT	: D701 WSBC
STORAGE TEMPERATURE	: 10 to 40°C
SHELF LIFE	: 12 months
PACK SIZE	: 15 Kg (7.5lt)

CHEMICAL RESISTANCE

Resistant to most dilute acids & alkalis, petroleum products & salt water.

SURFACE PREPARATION

All surfaces must be clean & mechanically sound and free of oil, dirt & dust. Concrete and cement screeds to preferably have a wood float finish, with a minimum compressive strength of 25mPa. Abrasive blast, diamond grind or acid etch to remove laitance.

MIXING

Thoroughly mix the resin and activator in the proportions given, using a slow speed mechanical mixer. Allow to stand for +/-10 minutes to allow air bubbles to escape.

APPLICATION

Pour the mixed epoxy fluid grout into the cavity ensuring the following precautions:

- Allow trapped air to escape.
- A gap of more than 20mm must be allowed for horizontal flow at 25°C.
- Do not apply below 15°C as the compound will become less fluid.
- Epoxy resin grouts build up heat as they begin to gel due to an exothermic reaction process, especially when large volumes are poured. Contact our technical department for advice.
- For floors, use notched rake and spike roller.

TOXICITY

Although D311 is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resin systems be adhered to. Refer to the 16-point Material Safety Data Sheet.

HOW TO SPECIFY

All equipment to be prepared and grouted into place with D311 Underwater Curing Epoxy Fluid Grout in accordance with the manufacturer's instructions.

The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.